MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

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MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	BW1-000-PO1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
BW1 Soil Moisture Regime: dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055-81%) (B070-11%) **Dry to Fresh,** **Fine Loamy** **or Silty** (B104-8%)	**PO1**	**Species Comp:** PO 64BW 12BF 8SB 6SW 4PJ 3PB 2CE 1 **Avg. Stocking:** 0.79 **Avg. site class:** 2	Target SPC: Po 65 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:11 years post-harvest Establishment year : 5 years post harvest Minimum Height: 1m all trees Assessment Method*:* Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	BW 47PO 24SB 9SW 7BF 6PB 4PJ 2CE 1 0.74 2	nDR Yield Curve Builder **Min. Operable age:** A65 **NMV @ operable age**: 149 m^3/ha **Silvicultural stratum**: BW1 Natural regeneration (Vegetative) to PO1 (YC = PO1 EXTEN)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>5,000
SO - WD trees/ha of target SPC	500 (40%)	1,000 (80%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Po 65
Site Index	20m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Vegetative propagation	None
Acceptable Alternative Treatments		Cut-to-length Tree length			

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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	BW1-012-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
BW1 Soil Moisture Regime: dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055-81%)	**SP1**	**Species Comp**: SB 50SW 20PJ 10PO 9BW 6BF 5 **Avg. Stocking:** 0.69 **Avg. site class:** 1.5	Target SPC: Sb 50, Sw 20 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:11 years post-harvest Establishment year: 7 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	BW 47PO 24SB 9SW 7BF 6PB 4PJ 2CE 1 0.74 2	nDR Yield Curve Builder **Min. Operable age:** A65 **NMV @ operable age**: 75 m^3/ha **Silvicultural stratum**: BW1 Artificial regeneration (Fill Plant) to SP1 (YC = SP1 BASC1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	500 (40%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 50, Sw 20
Site Index	8.9m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Full Plant 1800 SPH sb/sw	Aerial tending
Acceptable Alternative Treatments		Cut-to-length Tree length	Ground CSIP Aerial CSIP		Aerial chemical

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MANAGEMENT UNIT NAME: Nagagami Forest
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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	BW1-121-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
BW1 Soil Moisture Regime: dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055-81%)	**SP1**	**Species Comp**: SB 82PJ 11PO 3SW 3BF 1 **Avg. Stocking:** 0.86 **Avg. site class:** 1.3	Target SPC: Sb 80 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment: 11 years post-harvest Establishment year: 7 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	BW 47PO 24SB 9SW 7BF 6PB 4PJ 2CE 1 0.74 2	DR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 82 m^3/ha **Silvicultural stratum**: BW1 Artificial regeneration (Full Plant) to SP1 (YC = SP1 INTN1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	1750 (70%)	2000(80%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb80
Site Index	9.5m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Full plant SB 1800 SPH	Aerial Chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		

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MANAGEMENT UNIT NAME: Nagagami Forest
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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	LC1-000-LC1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
LC1 Soil Moisture Regime: Hydric Soil Nutrient Regime: moderate to high nutrient availability	**Hydric, Variable Soil Textures** (B128-61%, B129-39%)	**LC1**	**Species Comp**: SB 46OC 29CE 19BF 6 **Avg. Stocking:** 0.6 **Avg. site class:** 2.0	Target SPC: Sb 45, OC 30 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:15 years post-harvest Establishment year: 15 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	SB 42OC 32CE 17BF 3BW 2PJ 2PO 1SW 1 0.67 2	nDR yield curve Builder **Min. Operable Age:** A95 **Yield @ Operable Age:** 83 m^3/ha **Silvicultural Stratum:** LC1 Natural regeneration (Advanced Growth) to LC1 (YC = LC1 EXTEN)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3000
SO - WD trees/ha of target SPC	500 (40%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 45, OC 30
Site Index	7.5m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees.	Full Tree	None	Natural advanced growth	None
Acceptable Alternative Treatments		Cut-to-length Tree length			Aerial chemical

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MANAGEMENT UNIT NAME: Nagagami Forest
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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	LC1-011-SB1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Sb 90 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 15 years post-harvest Establishment year: 15 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
LC1 Soil Moisture Regime: Hydric Soil Nutrient Regime: Moderate	**Hydric, Variable Soil Textures** (B128-61%	**SB1**	**Species Comp**: SB 89OC 8CE 2BF 1 **Avg. Stocking:** 0.7 **Avg. site class:** 2.0	
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	SB 42OC 32CE 17BF 3BW 2PJ 2PO 1SW 1 0.67 2	nDR yield curve Builder **Min. Operable Age:** A85 **Yield @ Operable Age:** 76 m^3/ha **Silvicultural Stratum:** LC1 Artificial Regeneration (Fill Plant) to SB1 (YC = SB1 BASC1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>2,500
SO - WD trees/ha of target SPC	625 (50%)	1000 (80%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 90
Site Index	7.5m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees. (Do not CLAAG if Bf composition is over 30%)	Full Tree	None	Fill plant 600 -1200 SPH sb	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	MSIP CSIP		

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MANAGEMENT UNIT NAME: Nagagami Forest
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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	MW1-150-MW1

Silvicultural system	Clearcut

Current Condition		Future Condition		Regeneration Standards
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: (Sb+Pj) 50, Po30 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 7 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
MW1 Soil Moisture Regime: dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055-63%, B050-25%)	**MW1**	**Yield Curve:** BASC2 **Species Comp**: SB 31, PO30, PJ17, BW14 SW4 Bw2 Ce1 OC1 **Avg. Stocking:** 0.78 **Avg. site class:** 1.5	
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PO 31SB 21BW 19PJ 12BF 7SW 6CE 2PB 1 0.72 1.85	nDR yield curve Builder **Min. Operable Age:** A75 **Yield @ Operable Age:** 121 M3 **Silvicultural Stratum:** MW1 BASC2		

Stand Parameters	Min.	Target
Effective Density SPH		>6,000
SO - WD trees/ha of target SPC	625 (50%)	1000 (80%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	Target
Target SPC	Sb 30, PO30, Pj 20
Site Index	16m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Artificial Seeding (Sb 100k/ha)	None
Acceptable Alternative Treatments		Cut-to-length Tree length			

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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	MW1-000-PO1

Silvicultural system	Clearcut

Current Condition		Future Condition		Regeneration Standards
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
MW1 Soil Moisture Regime: dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055-63%, B050-25%, B052-5%). **Moist, Sandy or Coarse Loamy.** (B065-7%)	**PO1**	**Species Comp**: PO 64BW 12BF 8SB 6SW 4PJ 3PB 2CE 1 **Avg. Stocking:** 0.79 **Avg. site class:** 2.0	Target SPC: Po 65 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 5 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PO 31SB 21BW 19PJ 12BF 7SW 6CE 2PB 1 0.72 1.85	nDR Yield Curve Builder **Min. Operable age:** 65 **NMV @ operable age**: 149 m^3/ha **Silvicultural stratum:** MW1 Natural regeneration (Vegetative) to PO1 (YC = PO1 EXTEN)		

Stand Parameters	Min.	Target
Effective Density SPH		>5,000
SO - WD trees/ha of target SPC	500 (40%)	1,000 (80%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	Target
Target SPC	Po 65
Site Index	20m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Vegetative propagation	None
Acceptable Alternative Treatments		Cut-to-length Tree length			

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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	MW1-012-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Sb 50, Sw 20 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
MW1 Soil Moisture Regime: dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055-63%, B050-25%, B052-5%).	**SP1**	**Species Comp**: SB 50SW 20PJ 10PO 9BW 6BF 5 **Avg. Stocking:** 0.69 **Avg. site class:** 1.5	

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	500 (50%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 50, Sw 20
Site Index	8.9m at 50 yrs

Additional Information		**Development Information**
Species Comp:	PO 31SB 21BW 19PJ 12BF 7SW 6CE 2PB 1	nDR Yield Curve Builder **Min. Operable age:** A65 **NMV @ operable age**: 75 m^3/ha **Silvicultural stratum:** MW1 Artificial regeneration (Fill Plant) to SP1 (YC = SP1 BASC1)
Avg. stocking	0.72	
Avg. site class:	1.85	

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Fill plant 600 -1200 SPH sb/sw	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	MSIP	(full plant 1800 sph Sb/Sw)	Ground chemical

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MANAGEMENT UNIT NAME: Nagagami Forest
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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	MW1-121-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
MW1 Soil Moisture Regime: dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055-63%, B050-25%, B052-5%).	**SP1**	**Species Comp**: SB 82PJ 11PO 3SW 3BF 1 **Avg. Stocking:** 0.86 **Avg. site class:** 1.3	Target SPC: Sb 80 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment:11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PO 31SB 21BW 19PJ 12BF 7SW 6CE 2PB 1 0.72 1.85	DR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 82 m^3/ha **Silvicultural stratum:** MW1 Artificial regeneration (Full Plant) to SP1 (YC = SP1 INTN1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	1750 (70%)	1750(70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb80
Site Index	9.5m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Full plant Sb 1,800 SPH	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		Ground chemical Prescribed burn, manual ground tending (if Bf > 20%)

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MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	MW2-000-MH2

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: PO40 (SB+SW)20 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 7 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
MW2 Soil Moisture Regime: dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Moist, Sandy or Coarse Loamy** (B070-22%, B067-7%) **Fresh, Sandy or Coarse Loamy** (B055-21%, B052-20%) **Dry to Fresh, Fine Loamy or Silty** (B104-16%, B099-7%, B101 - 7%	**MW2**	**Hardwood leading** – MH2 **Species Comp**: PO 40BF 17BW 14SB 11SW 9CE 3PJ 3OC 2PB 1 **Avg. Stocking:** 0.76 **Avg. site class:** 2	

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>4000
SO - WD trees/ha of target SPC	500 (40%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	(Po+Bw)55 (SB+SW)20
Site Index	18m at 50 yrs

Additional Information		**Development Information**
Species Comp:	PO 28BW 24BF 14SW 12SB 11CE 4PB 3PJ 3OC 10	nDR Yield Curve Builder
Avg. stocking	0.66	**Min. Operable age:** A75
Avg. site class:	2	**Yield @ Operable Age**: 142 m^3/ha
		Silvicultural stratum: (YC = MW2 EXTEN)

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Vegetative propagation/Natural seeding	None
Acceptable Alternative Treatments		Cut-to-length Tree length			

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MANAGEMENT UNIT NAME: Nagagami Forest
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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	MW2-000-MC2

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
MW2 Soil Moisture Regime: Fresh Soil Nutrient Regime: moderate nutrient availability	**Moist, Sandy or Coarse Loamy** (B070-22%, B067-7%) **Fresh, Sandy or Coarse Loamy** (B055-21%, B052-20%) **Dry to Fresh, Fine Loamy or Silty** (B104-16%, B099-7%, B101 - 7%	**MW2**	**Conifer leading** – MC2 **Species Comp**: BF 27PO 25SB 18BW 13SW 11CE 3PJ 2OC 1 **Avg. Stocking:** 0.7 **Avg. site class:** 1.5	Target SPC: (Sb/Sw/Pj)30, PO25 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 7 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	BF 20BW 20PO 17SW 16SB 15CE 5PB 3PJ 3OC 10 0.64 1.5	nDR Yield Curve Builder **Min. Operable age:** A75 **Yield @ Operable Age**: 152 m^3/ha **Silvicultural stratum:** (YC = MW2 EXTEN)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>2500
SO - WD trees/ha of target SPC	500 (40%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb+Sw +Pj =55, Po 25
Site Index	18m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Vegetative propagation/Natural seeding	None
Acceptable Alternative Treatments		Cut-to-length Tree length			

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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	MW2-011-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
MW2 Soil Moisture Regime: fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055-21%, B052-20%) **Dry to Fresh, Fine Loamy or Silty** (B104-16%, B099-7%, B101-7%)	**SP1**	**Species Comp**: SB 50SW 20PJ 10PO 9BW 6BF 5 **Avg. Stocking:** 0.69 **Avg. site class:** 1.5	Target SPC: Sb 50, Sw 20 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	500 (40%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 50, Sw 20
Site Index	8.9m at 50 yrs

Additional Information		**Development Information**
Species Comp:	PO 24BW 22BF 16SW 14SB 13CE 4PB 3PJ 3OC 1	nDR Yield Curve Builder
Avg. stocking	0.65	**Min. Operable age:** A65
Avg. site class:	1.8	**NMV @ operable age**: 75 m^3/ha
		Silvicultural stratum: MW2 Artificial regeneration (Fill Plant) to SP1 (YC = SP1 BASC1)

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Fill Plant 600 -1200 SPH sb/sw	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP	full plant	Aerial chemical (x2)

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FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	MW2-121-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
MW2 Soil Moisture Regime: fresh Soil Nutrient Regime: moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055-21%, B052-20%) **Dry to Fresh, Fine Loamy or Silty** (B104-16%, B099-7%, B101-7%)	**SP1**	**Species Comp**: SB 82PJ 11PO 3SW 3BF 1 **Avg. Stocking:** 0.86 **Avg. site class:** 1.3	Target SPC: Sb 80 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment: 11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite

Stand Parameters	Min.	Target
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	1750 (70%)	1750(70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	Target
Target SPC	Sb80
Site Index	9.5m at 50 yrs

Additional Information		**Development Information**
Species Comp:	PO 24BW 22BF 16SW 14SB 13CE 4PB 3PJ 3OC 1	DR Yield Curve Builder
Avg. stocking	0.65	**Min. Operable age:** A55
Avg. site class:	1.8	**Yield @ Operable Age**: 82 m^3/ha
		Silvicultural stratum: MW2 Artificial regeneration (Full Plant) to SP1 (YC = SP1 INTN1)

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Full plant Sb 1,800 SPH	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		Aerial chemical (x2)

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PJ1-011-PJ1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
PJ1 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B049-75%, B050-18%) **Dry, Sandy** (B034-7%)	**PJ1**	**Species Comp**: PJ 81PO 6BW 5SB 5SW 2BF 1 **Avg. Stocking:** 0.76 **Avg. site class:** 1.5	Target SPC: Pj 80 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PJ 75SB 17PO 5BW 3 0.83 1.5	nDR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 131 m^3/ha **Silvicultural stratum:** PJ1 Artificial regeneration (Fill Plant) to PJ1 (YC = PJ1 BASC1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>=2500 sph
SO - WD trees/ha of target SPC	625 (50%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Pj 80
Site Index	17.52m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Fill Plant 600 -1200 SPH Pj	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PJ1-150-PJ1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
PJ1 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B049-75%, B050-18%) **Dry, Sandy** (B034-7%)	**PJ1**	**Species Comp**: PJ 81PO 6BW 5SB 5SW 2BF 1 **Avg. Stocking:** 0.76 **Avg. site class:** 1.5	Target SPC: Pj 80 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PJ 75SB 17PO 5BW 3 0.83 1.5	nDR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 131 m^3/ha **Silvicultural stratum:** PJ1 Artificial regeneration (Seeding) to PJ1 (YC = PJ1 BASC2)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>4,000
SO - WD trees/ha of target SPC	625 (50%)	875 (70%)
Stand Parameters	**Min.**	**Target**

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Pj 80
Site Index	17.52m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Artificial seeding (pj 40k/ha)	None
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP MSIP		Prescribed burn, Aerial chemical, Manual ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PJ1-161-PJ1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
PJ1 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B049-75%, B050-18%) **Dry, Sandy** (B034-7%)	**PJ1**	**Species Comp**: PJ 95SB 5 **Avg. Stocking:** 1.0 **Avg. site class:** 1.0	Target SPC: Pj 95 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment: 11 years post-harvest Establishment year: 5 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PJ 75SB 17PO 5BW 3 0.83 1.5	DR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 265 m^3/ha **Silvicultural stratum:** PJ1 Artificial regeneration (Full Plant - Improved Stock) to PJ1 (YC = PJ1 ELIT1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>2,500
SO - WD trees/ha of target SPC		2375 (95%)
SO - WD trees/ha		2500 (100%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Pj 95
Site Index	18.8m at 50 years

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Planting tree improved stock Pj 2500 SPH	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP MSIP		Prescribed burn, Aerial chemical, Ground chemical, Manual ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PJ1-121-PJ1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	
PJ1 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B049-75%, B050-18%) **Dry, Sandy** (B034-7%)	**PJ1**	**Species Comp**: PJ 89PO 5BF 3SB 2BW 1 **Avg. Stocking:** 0.9 **Avg. site class:** 1.0	**Establishment*:** Target SPC: Pj 90 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment: 11 years post-harvest Establishment year: 5 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PJ 75SB 17PO 5BW 3 0.83 1.5	DR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 230 m^3/ha **Silvicultural stratum:** PJ1 Artificial regeneration (Full Plant) to PJ1 (YC = PJ1 INTN1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	1750 (70%)	1750 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 90
Site Index	18.8m at 50 years

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Full plant (Pj) >1800 SPH	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP MSIP		

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PJ1-120-PWR

Silvicultural system	Clearcut

Current Condition		**Future Condition**		Regeneration Standards
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Pw4-0or PR 40 (specific to the PW1 Analysis Unit/yield curve) Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 12 years post-seedcut Establishment year: 7 years post harvest Minimum Height: 1m all trees Assessment Method*:* Aerial Ocular, ground survey, large scale photography/satellite
PJ1 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B049-75%, B050-18%) **Dry, Sandy** (B034-7%)	**PWR**	**Species Comp**: PW 50BF 20BW 10PO 10SB 10 **Avg. Stocking:** 0.7 **Avg. site class:** 1.0	
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PJ 75SB 17PO 5BW 3 0.83 1.5	nDR Yield Curve Builder **Min. Operable age:** A85 **Yield @ Operable Age**: 284 m^3/ha **Silvicultural stratum:** PJ1 Artificial regeneration (Full Plant) to PWR (YC = PWR BASC1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>2000
SO - WD trees/ha of target SPC	625 (50%)	1000 (80%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Pw30 Pr40
Site Index	18m at 50

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	White and red pine rehabilitation. Treat sites appropriate for white and red pine. Plant >2000 stems/ha Pw and Pr (high density plant to help minimize weevil damage to Pw)	Aerial chemical
Acceptable Alternative Treatments		CTL, slash management where required	Aerial or ground chemical; none		Ground chemical Manual cleaning

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PJ2-011-PJ1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	
PJ2 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B050-38%, B049-36%) **Moist, Sandy or Coarse Loamy** (B065-22%) **Dry to Fresh, Fine Loamy or Silty** (B098 - 4%)	**PJ1**	**Species Comp**: PJ 81PO 6BW 5SB 5SW 2BF 1 **Avg. Stocking:** 0.76 **Avg. site class:** 1.5	**Establishment*:** Target SPC: Pj 80 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	625 (50%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Pj 80
Site Index	17.5m at 50 yrs

Additional Information		**Development Information**
Species Comp:	PJ 52SB 31PO 8BW 5BF 1OC 1PB 1SW 1	nDR Yield Curve Builder
Avg. stocking	0.8	**Min. Operable age:** A55
Avg. site class:	2.0	**Yield @ Operable Age**: 136 m^3/ha
		Silvicultural stratum: PJ2 Artificial regeneration (Full Plant) to PJ1 (YC = PJ1 BASC1)

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Full plant Pj 1800 SPH	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	MSIP CSIP		Aerial chemical

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PJ2-150-PJ1

Silvicultural system	Clearcut

Current Condition		Future Condition		Regeneration Standards
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Pj 80; Site Occupancy (SO) Defn: 1:8m^2; Max time to establishment: 11 years post-harvest; Establishment year: 8 years post harvest; Minimum Height: 1m all trees; Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
PJ2 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B050-38%, B049-36%) **Dry to Fresh, Fine Loamy or Silty** (B098 - 4%)	**PJ1**	**Species Comp**: PJ 81PO 6BW 5SB 5SW 2BF 1 **Avg. Stocking:** 0.76 **Avg. site class:** 1.5	

Stand Parameters	Min.	Target
Effective Density SPH		>6,000
SO - WD trees/ha of target SPC	625 (50%)	1000 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	Target
Target SPC	Pj 80
Site Index	17.52m at 50 yrs

Additional Information		Development Information
Species Comp:	PJ 52SB 31PO 8BW 5BF 1OC 1PB 1SW 1	nDR Yield Curve Builder
Avg. stocking	0.8	**Min. Operable age:** A55
Avg. site class:	2.0	**Yield @ Operable Age**: 136 m^3/ha
		Silvicultural stratum: PJ2 Artificial regeneration (Full Plant) to PJ1 (YC = PJ1 BASC2)

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Seeding (pj 40k/ha)	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length		Full Plant Pj 1800 SPH	Prescribed Burn, Ground chemical, Manual ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PJ2-161-PJ1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	
PJ2 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B050-38%, B049-36%)	**PJ1**	**Species Comp**: PJ 95SB 5 **Avg. Stocking:** 1.0 **Avg. site class:** 1.0	**Establishment*:** Target SPC: Pj 95 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment: 11 years post-harvest Establishment year: 5 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PJ 52SB 31PO 8BW 5BF 1OC 1PB 1SW 1 0.8 2.0	DR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 265 m^3/ha **Silvicultural stratum:** PJ1 Artificial regeneration (Full Plant - improved stock) to PJ1 (YC = PJ1 ELIT1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>2,500
SO - WD trees/ha of target SPC		2375 (95%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Pj 95
Site Index	18.8m at 50 years

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Planting tree improved stock Pj 2500 sph	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length			Prescribed Burn, Ground chemical, Manual ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PJ2-121-PJ1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
PJ2 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B050-38%, B049-36%) **Moist, Sandy or Coarse Loamy** (B065-22%) **Dry to Fresh, Fine Loamy or Silty** (B098 - 4%)	**PJ1**	**Species Comp**: PJ 89PO 5BF 3SB 2BW 1 **Avg. Stocking:** 0.9 **Avg. site class:** 1.0	Target SPC: Pj 90 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment: 11 years post-harvest Establishment year: 5 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PJ 52SB 31PO 8BW 5BF 1OC 1PB 1SW 1 0.8 2.0	DR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 230 m^3/ha **Silvicultural stratum:** PJ2 Artificial Regeneration (Full Plant) to PJ1 (YC = PJ1 INTN1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>=2500 sph
SO - WD trees/ha of target SPC	1750 (70%)	2250 (90%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Pj 90
Site Index	18.8m at 50 years

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Full plant (Pj) 1800 sph	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		

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MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PO1-121-PJ1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
PO1 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055 - 76%)	**PJ1**	**Species Comp**: PJ 89PO 5BF 3SB 2BW 1 **Avg. Stocking:** 0.9 **Avg. site class:** 1.0	Target SPC: Pj 90 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment: 11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PO 65BW 12SB 8PJ 5PB 4BF 3SW 3 0.74 2.0	DR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 230 m^3/ha **Silvicultural stratum:** PO1 Artificial Regeneration (Full Plant) to PJ1 (YC = PJ1 INTN1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	1750 (70%)	2250 (90%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Pj 90
Site Index	18.8m at 50 years

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Full plant (Pj) 1800 sph	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		Aerial chemical, Ground chemical, Manual ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PO1-000-PO1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	
PO1 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055 - 76%) **Dry to Fresh, Fine Loamy or Silty** (B104 - 15%) **Moist, Sandy or Coarse Loamy** (B070 - 9%)	**PO1**	**Species Comp**: PO 64BW 12BF 8SB 6SW 4PJ 3PB 2CE 1 **Avg. Stocking:** 0.79 **Avg. site class:** 2.0	**Establishment*:** Target SPC: Po 65 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 5 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>5,000
SO - WD trees/ha of target SPC	500 (40%)	1,000 (80%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Po 65
Site Index	20m at 50 yrs

Additional Information		**Development Information**
Species Comp:	PO 65BW 12SB 8PJ 5PB 4BF 3SW 3	nDR Yield Curve Builder **Min. Operable age:** A65 **NMV @ operable age**: 149 m^3/ha **Silvicultural stratum:** PO1 Natural Regeneration (vegetative) to PJ1 (YC = PO1 EXTEN)
Avg. stocking	0.74	
Avg. site class:	2.0	

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Vegetative propagation	None
Acceptable Alternative Treatments		Cut-to-length Tree length			

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MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PO1-121-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
PO1 Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B055 - 76%)	**SP1**	**Species Comp**: SB 82PJ 11PO 3SW 3BF 1 **Avg. Stocking:** 0.86 **Avg. site class:** 1.3	Target SPC: Sb 80 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment: 11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PO 65BW 12SB 8PJ 5PB 4BF 3SW 3 0.74 2.0	DR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 82 m^3/ha **Silvicultural stratum:** PO1 Artificial Regeneration (Full Plant) to SP1 (YC = SP1 INTN1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	1625 (65%)	1750 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb80
Site Index	9.5m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Full plant Sb 1800 sph	Aerial tending
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		Aerial tending X2

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PWR-120-PWR

Silvicultural system	Clearcut

Current Condition		Future Condition		Regeneration Standards
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	
PWR Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B048-53%, B049-47%)	**PWR**	**Species Comp**: PW 50BF 20BW 10PO 10SB 10 **Avg. Stocking:** 0.7 **Avg. site class:** 1.0	**Establishment*:** Managed species: Pw (Pr) Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:12 years post-harvest Establishment year: 12 years post seedcut Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PR 39PW 22SB 16PO 10BF 9BW 4 0.76 1.56	nDR Yield Curve Builder **Min. Operable age:** A85 **Yield @ Operable Age**: 284 m^3/ha **Silvicultural stratum:** PWR Artificial Regeneration (Full Plant) to PWR (YC = PWR BASC1)		

Stand Parameters	Min.	Target
Effective Density SPH		>2000
SO - WD trees/ha of target SPC	625 (50%)	1000 (80%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	Target
Target SPC	Pw50 Pr30
Site Index	18 m at 5 years0

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	1. Combined Prepcut/Seedcut, reducing crown closure to 40-50% 2. Final Removal - Retain 10 veteran Pw + Pr per hectare when average height of white and red pine regeneration is >= 6 m	Tree Length harvest is normal operation. Full Tree harvest is permitted for seedcut cut only, with emphasis on minimizing damage to residuals	MSIP	Plant Pw 1100 sph	Aerial chemical
Acceptable Alternative Treatments	Commercial Thinning	Tree length harvest for removal cut with emphasis on skid trail management and protection of advanced regeneration	None; Aerial or ground chemical, prescribed burn	None (if good seed year); plant 1100 Pw/Pr sph	Ground chemical Manual ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	PWR-PCT-PWR

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	
PWR Soil Moisture Regime: Dry to fresh Soil Nutrient Regime: Low to moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B048-53%, B049-47%)	**PWR**	**Species Comp**: PW 50BF 20BW 10PO 10SB 10 **Avg. Stocking:** 0.7 **Avg. site class:** 1.0	**Establishment*:** Managed species: Pw (Pr) Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:12 years post-harvest Establishment year: 12 years post harvest Minimum Height: 1m all trees Assessment Method*:* Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	PR 39PW 22SB 16PO 10BF 9BW 4 0.76 1.56	nDR Yield Curve Builder **Min. Operable age:** A85 **Yield @ Operable Age**: 284 m^3/ha **Silvicultural stratum:** PWR Artificial Regeneration (Full Plant) to PWR (YC = PWR BASC1)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>2000
SO - WD trees/ha of target SPC	625 (50%)	1000 (80%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Pw50 (pr30)
Site Index	18 m at A50

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Commercial Thinning	Tree length harvest for removal cut with emphasis on skid trail management and protection of advanced regeneration	None; Aerial or ground chemical, prescribed burn	None (if good seed year); plant 1100 Pw/Pr sph	Ground chemical Manual ground
Acceptable Alternative Treatments	N/A	N/A	N/A	N/A	N/A

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SB1-021-SB1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Sb 90 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:11 years post-harvest Establishment year: 10 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
SB1 Soil Moisture Regime: Hydric Soil Nutrient Regime: moderate nutrient availability	**Hydric, Variable Textures** (B128 - 83%, B127 - 17%)	**SB1**	**Species Comp**: SB 89OC 8CE 2BF 1 **Avg. Stocking:** 0.7 **Avg. site class:** 2.0	
Additional Information		**Development Information**		
Species Comp:	SB 83OC 11CE 2PJ 2BF 1BW 1	nDR Yield Curve Builder **Min. Operable age:** A85 **Yield @ Operable Age**: 76 m^3/ha **Silvicultural stratum:** SB1 Artificial Regeneration (Full Plant) to SB1 (YC = SB1 BASC1)		
Avg. stocking	0.68			
Avg. site class:	2.0			

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>5,000
SO - WD trees/ha of target SPC	625 (50%)	1000 (80%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 90
Site Index	7.5m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees (Harvest on frozen ground or use high flotation equipment).	Full Tree	None	Full plant sb 1500 sph	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	MSIP CSIP		Ground chemical

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SB1-000-SB1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Sb 80, OC 10 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:12 years post-harvest Establishment year: 12 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
SB1 Soil Moisture Regime: Hydric Soil Nutrient Regime: moderate nutrient availability	**Hydric, Variable Textures** (B128 - 83%, B127 - 17%)	**SB1**	**Species Comp**: SB 79OC 11CE 4BF 3BW 1PJ 1PO 1 **Avg. Stocking:** 0.55 **Avg. site class:** 2.0	
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	SB 83OC 11CE 2PJ 2BF 1BW 1 0.68 2.0	nDR Yield Curve Builder **Min. Operable age:** A85 **Yield @ Operable Age**: 58 m^3/ha **Silvicultural stratum:** SB1 Natural Regeneration (Advanced Growth) to SB1 (YC = SB1 EXTEN)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>2500
SO - WD trees/ha of target SPC	500 (50%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 80, OC 10
Site Index	7.5m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees (Harvest on frozen ground or use high flotation equipment).	Full Tree	None	Natural advanced growth	None
Acceptable Alternative Treatments		Cut-to-length Tree length		Natural seed	Aerial chemical

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SF1-000-SF1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	
SF1 Soil Moisture Regime: Fresh to moist Soil Nutrient Regime: moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B052-35%, B050-19%) **Moist, Sandy or Coarse Loamy** (B065-17%, B067-13%) **Dry to Fresh, Fine Loamy, or Silty** (B101 - 8%) **Moist, Fine Loamy, Silty or Clayey** (B114 - 8%)	**SF1**	**Species Comp**: SB 30BF 25SW 16PO 10BW 6CE 5OC 5PJ 3 **Avg. Stocking:** 0.65 **Avg. site class:** 1.0	**Establishment*:** Target SPC: Sb 30, Bf 25, Sw 15 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:12 years post-harvest Establishment year: 12 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	BF 27SB 26SW 16BW 11CE 9PO 6OC 3PJ 2PB 1 0.66 1.5	nDR Yield Curve Builder **Min. Operable age:** A75 **Yield @ Operable Age**: 99 m^3/ha **Silvicultural stratum:** SF1 Natural Regeneration (Advanced Growth) to SF1 (YC = SF1 EXTEN)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>2000
SO - WD trees/ha of target SPC	500 (40%)	875(70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 30, Bf 25, Sw 15
Site Index	10.4m at 50 years

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Natural advanced growth	None
Acceptable Alternative Treatments		Cut-to-length Tree length			Aerial chemical

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MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SF1-012-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Sb 50, Sw 20 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 10 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
SF1 Soil Moisture Regime: Fresh to moist Soil Nutrient Regime: moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B052-35%, B050-19%) **Moist, Sandy or Coarse Loamy** (B065-17%, B067-13%) **Dry to Fresh, Fine Loamy, or Silty** (B101 - 8%)	**SP1**	**Species Comp**: SB 50SW 20PJ 10PO 9BW 6BF 5 **Avg. Stocking:** 0.69 **Avg. site class:** 1.5	

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	500 (40%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 50, Sw 20
Site Index	8.9m at 50 yrs

Additional Information		**Development Information**
Species Comp:	BF 27SB 26SW 16BW 11CE 9PO 6OC 3PJ 2PB 1	nDR Yield Curve Builder **Min. Operable age:** A65 **Yield @ Operable Age**: 75 m^3/ha **Silvicultural stratum:** SF1 Artificial Regeneration (Full Plant) to SP1 (YC = SP1 BASC1)
Avg. stocking	0.66	
Avg. site class:	1.5	

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Fill Plant 600 -1200 SPH sb/sw	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		

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MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SF1-051-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	
SF1 Soil Moisture Regime: Fresh to moist Soil Nutrient Regime: moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B052-35%, B050-19%) **Moist, Sandy or Coarse Loamy** (B065-17%, B067-13%) **Dry to Fresh, Fine Loamy, or Silty** (B101 - 8%)	**SP1**	**Species Comp**: SB 50SW 20PJ 10PO 9BW 6BF 5 **Avg. Stocking:** 0.69 **Avg. site class:** 1.5	**Establishment*:** Target SPC: Sb 50, Sw 20 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 10 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	500 (40%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 50, Sw 20
Site Index	8.9m at 50 yrs

Additional Information		**Development Information**
Species Comp:	BF 27SB 26SW 16BW 11CE 9PO 6OC 3PJ 2PB 1	nDR Yield Curve Builder
Avg. stocking	0.66	**Min. Operable age:** A65
Avg. site class:	1.5	**Yield @ Operable Age**: 75 m^3/ha
		Silvicultural stratum: SF1 Artificial Regeneration (Artificial Seeding) to SP1 (YC = SP1 BASC2)

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Artificial Seeding 100k Sb	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		

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MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SF1-121-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Sb 80 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment: 11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
SF1 Soil Moisture Regime: Fresh to moist Soil Nutrient Regime: moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B052-35%, B050-19%) **Moist, Sandy or Coarse Loamy** (B065-17%, B067-13%)	**SP1**	**Species Comp**: SB 82PJ 11PO 3SW 3BF 1 **Avg. Stocking:** 0.86 **Avg. site class:** 1.3	

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	1625 (75%)	1750(70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb80
Site Index	9.5m at 50 yrs

Additional Information		**Development Information**
Species Comp:	BF 27SB 26SW 16BW 11CE 9PO 6OC 3PJ 2PB 1	DR Yield Curve Builder
Avg. stocking	0.66	**Min. Operable age:** A55
Avg. site class:	1.5	**Yield @ Operable Age**: 82 m^3/ha
		Silvicultural stratum: SP1 Artificial Regeneration (Full Plant) to SP1 (YC = SP1 INTN1)

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Full Plant sb 1800 sph	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		Ground Chemical Manual Ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SP1-000-SF1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Sb + Sw 45, Bf 25 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment:11 years post-harvest Establishment year: 10 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
SP1 Soil Moisture Regime: Fresh Soil Nutrient Regime: moderate nutrient availability	**Moist, Sandy or Coarse Loamy** (B060-35%) **Fresh, Sandy or Coarse Loamy** (B050-30%, B049-19%) **Moist, Fine Loamy, Silty or Clayey** (B116-16%)	**SF1**	**Species Comp**: SB 30BF 25SW 16PO 10BW 6CE 5OC 5PJ 3 **Avg. Stocking:** 0.65 **Avg. site class:** 1.0	

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>5,000
SO - WD trees/ha of target SPC	500 (40%)	875(70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb + Sw 45, Bf 25
Site Index	10.4m at 50 years

Additional Information		**Development Information**
Species Comp:	SB 64PJ 16PO 6BW 5BF 3OC 3CE 1PB 1SW 1	nDR Yield Curve Builder **Min. Operable age:** A75 **Yield @ Operable Age**: 99 m^3/ha **Silvicultural stratum:** SF1 Natural Regeneration (Natural Seeding) to SF1 (YC = SF1 EXTEN)
Avg. stocking	0.72	
Avg. site class:	1.5	

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Natural seeding	None
Acceptable Alternative Treatments		Cut-to-length Tree length			Aerial chemical

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MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SP1-011-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
SP1 Soil Moisture Regime: Fresh Soil Nutrient Regime: moderate nutrient availability	**Moist, Sandy or Coarse Loamy** (B060-35%) **Fresh, Sandy or Coarse Loamy** (B050-30%, B049-19%)	**SP1**	**Species Comp**: SB 50SW 20PJ 10PO 9BW 6BF 5 **Avg. Stocking:** 0.69 **Avg. site class:** 1.5	Target SPC: Sb 50, Sw 20 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>2,000
SO - WD trees/ha of target SPC	500 (40%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 50, Sw 20
Site Index	8.9m at 50 yrs

Additional Information		**Development Information**
Species Comp:	SB 64PJ 16PO 6BW 5BF 3OC 3CE 1PB 1SW 1	nDR Yield Curve Builder **Min. Operable age:** A65 **Yield @ Operable Age**: 75 m^3/ha **Silvicultural stratum:** SP1 Artificial Regeneration (Fill Plant) to SP1 (YC = SP1 BASC1)
Avg. stocking	0.72	
Avg. site class:	1.5	

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Fill Plant 600 -1200 SPH sb/sw	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		

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MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SP1-051-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
SP1 Soil Moisture Regime: Fresh Soil Nutrient Regime: moderate nutrient availability	**Fresh, Sandy or Coarse Loamy** (B050-30%, B049-19%)	**SP1**	**Species Comp**: SB 50SW 20PJ 10PO 9BW 6BF 5 **Avg. Stocking:** 0.69 **Avg. site class:** 1.5	Target SPC: Sb 50, Sw 20 Site Occupancy (SO) Defn: 1:8m^2 Max time to establishment: 11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
Additional Information		**Development Information**		
Species Comp: **Avg. stocking** **Avg. site class:**	SB 64PJ 16PO 6BW 5BF 3OC 3CE 1PB 1SW 1 0.72 1.5	nDR Yield Curve Builder **Min. Operable age:** A65 **Yield @ Operable Age**: 75 m^3/ha **Silvicultural stratum:** SP1 Artificial Regeneration (Seeding) to SP1 (YC = SP1 BASC2)		

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	500 (40%)	875 (70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb 50, Sw 20
Site Index	8.9m at 50 yrs

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	None	Artificial Seeding - Sb 100k/ha)	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length	CSIP		Ground chemical Manual ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SP1-161-SP1

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:**
SP1 Soil Moisture Regime: Fresh Soil Nutrient Regime: moderate nutrient availability	**Moist, Sandy or Coarse Loamy** (B060-35%) **Fresh, Sandy or Coarse Loamy** (B050-30%, B049-19%)	**SP1**	**Species Comp**: SB 95PJ 5 **Avg. Stocking:** 0.95 **Avg. site class:** 1.0	Target SPC: SB 95 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment:11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>2,500
SO - WD trees/ha of target SPC		2375 (95%)
SO - WD trees/ha		2500 (100%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	SB 95
Site Index	10.4 m at 50 yrs

Additional Information		**Development Information**
Species Comp:	SB 64PJ 16PO 6BW 5BF 3OC 3CE 1PB 1SW 1	DR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 130 m^3/ha **Silvicultural stratum:** SP1 Artificial Regeneration (Full Plant - Improved Stock) to SP1 (YC = SP1 ELIT1)
Avg. stocking	0.72	
Avg. site class:	1.5	

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Planting tree improved stock Sb 2500 sph	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length			Prescribed Burn, Ground chemical, Manual ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SP1-121-SP1A

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Sb 80 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment:11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
SP1 Soil Moisture Regime: Fresh Soil Nutrient Regime: moderate nutrient availability	**Moist, Sandy or Coarse Loamy** (B060-35%) **Fresh, Sandy or Coarse Loamy** (B050-30%, B049-19%)	**SP1**	**Species Comp**: SB 82PJ 11PO 3SB 3BF 1 **Avg. Stocking:** 0.86 **Avg. site class:** 1.3	

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	1625 (75%)	1750(70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb80
Site Index	9.5m at 50 yrs

Additional Information		**Development Information**
Species Comp:	SB 64PJ 16PO 6BW 5BF 3OC 3CE 1PB 1SW 1	DR Yield Curve Builder
Avg. stocking	0.72	**Min. Operable age:** A55
Avg. site class:	1.5	**Yield @ Operable Age**: 82 m^3/ha
		Silvicultural stratum: SP1 Artificial Regeneration (Full Plant) to SP1 (YC = SP1 INTN1)

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Full Plant Sb 1800 sph	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length			Chemical, Prescribed burn, Manual ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions

MANAGEMENT UNIT NAME: Nagagami Forest
PLAN PERIOD: April 1, 2021 to March 31, 2031

FMP-4 SILVICULTURUAL GROUND RULES

SGR Code	SP1-121-SP1B

Silvicultural system	Clearcut

Current Condition		**Future Condition**		**Regeneration Standards**
Forest Units	**Ecosite(s)**	**Forest Unit**	**Stand Characteristics**	**Establishment*:** Target SPC: Sw 80 Site Occupancy (SO) Defn: 1:4m^2 Max time to establishment:11 years post-harvest Establishment year: 8 years post harvest Minimum Height: 1m all trees Assessment Method: Aerial Ocular, ground survey, large scale photography/satellite
SP1 Soil Moisture Regime: Fresh Soil Nutrient Regime: moderate nutrient availability	**Moist, Sandy or Coarse Loamy** (B060-35%) **Fresh, Sandy or Coarse Loamy** (B050-30%, B049-19%)	**SP1**	**Species Comp**: SW 82PJ 11PO 3SB 3BF 1 **Avg. Stocking:** 0.86 **Avg. site class:** 1.3	

Stand Parameters	**Min.**	**Target**
Effective Density SPH		>3,000
SO - WD trees/ha of target SPC	1625 (75%)	1750(70%)

Performance*:
No Performance Assessment will be done in this 10-year Plan see FMP text section (XXX)

Stand Parameters	**Target**
Target SPC	Sb80
Site Index	9.5m at 50 yrs

Additional Information		**Development Information**
Species Comp:	SB 64PJ 16PO 6BW 5BF 3OC 3CE 1PB 1SW 1	DR Yield Curve Builder **Min. Operable age:** A55 **Yield @ Operable Age**: 94 m^3/ha **Silvicultural stratum:** SP1 Artificial Regeneration (Full Plant) to SP1 (YC = SP1 INTN2)
Avg. stocking	0.72	
Avg. site class:	1.5	

	Silvicultural Treatments				
	Harvest Method	**Logging Method**	**Site Preparation**	**Regeneration**	**Tending**
Most Common Treatment Package	Conventional Clearcut: ≥ 25 wildlife trees with ≥10 large stems with a minimum of 5 large living trees	Full Tree	MSIP	Full Plant Sw 1800 sph	Aerial chemical
Acceptable Alternative Treatments		Cut-to-length Tree length			Chemical, Prescribed burn, Manual ground

*A review of the 2017 FMPM requirements for establishment and performance standards is presently ongoing. The parameters are subject to change prior to draft and final plan submissions