

CAR1217: Section 6.2.1.3 Consideration of Financial Constraints Option 2. Comparable harvest activity

Species	Product	Mill	Tons	Cubic Feet	Cords
Hemlock	Pulp	Chester Forest Products	2,155.5	67,897.0	905.3
Hemlock	Studs	Chester Forest Products	1,710.3	53,874.8	718.3
Mixed Species	BM	Davis Forestry Products	1,557.2	49,050.9	654.0
Spruce	Studs	Fraser Timber Limited	229.9	7,242.5	96.6
Spruce Fir	Saw Logs	Pleasant River Lumber	1,060.3	33,400.4	445.3
Spruce Fir	Pulp	Woodland Pulp	1,338.1	42,150.2	562.0
Hardwood	Pulp	Woodland Pulp	2,339.4	73,689.8	982.5
			10,390.7	327,305.5	4,364.1
			Tons/ac	Cuft/ac	Cords/ac
Final Harvest Area (actual)	Acres		37.2	1,173.1	15.6
From Prescription (predicted)	357		29.1	916.8	12.2

Subject Comparable Harvest Activity: Section 6.2.1.3 Consideration of Financial Constraints

Silvicultural Prescription: Single Tree/Small Group Selection

Stand BA: 104

Target BA: 60

Species Groups	Harvest CuFt/Acre	% of Harvest Vol
Hardwood	439.93	38%
Conifer	733.21	62%
All	1,173.14	

Comparable Baseline Treatment (Strata = SF2)

Silvicultural Prescription: Single Tree/Small Group Selection

Stand BA: 127

Target BA: 60

Species Groups	Harvest CuFt/Acre	% of Harvest Vol	-20%	+20%
Hardwood	574.81	44%	35%	52%
Conifer	742.86	56%	45%	68%
All	1,317.68			

V. Harvest Area Description and Prescription

Combine multiple, similar stands that have the same prescription

Attach detailed harvest area maps showing sensitive resources and different treatment areas

Area #: 1	Stand #s: 8428, 8449, 8507, 8513	Acres: 140 (projected)
Current Stand Description (size, density, structure, composition, quality)	Area #1 is relatively uniform in height and basal area, but varies in species composition and DBH. Basal area is high, around 110 sqft per acre, and includes mature hemlock, spruce, and a diverse mix of hardwoods. Quality is good, with a high stocking of studwood and softwood saw logs. Most hardwood is of pulpwood quality.	
Harvest Objective (thinning, improvement, regeneration, etc.)	Regeneration: The primary objective of this harvest is to establish a second cohort (regeneration). All harvesting should qualify as an improvement.	
Desired Long-term Condition:	Unevenaged management is desired in the long term. This will depend on the abundance of evenly distributed, long lived, shade tolerant species. Hemlock will be retained as the oldest and tallest cohort, while a mixture of spruce, hemlock, and yellow birch will be established for two addition cohorts in the future. This will be multi-layered system, as opposed to a horizontal distribution (mosaic system).	
Silvicultural System and Prescription:	Single Tree Selection: Remove individual stems evenly throughout the stand, removing approximately 40% of the basal area, never allowing the residual stand to drop below 60 sqft. Species retention prioritized: Hemlock, yellow birch, red maple, pine, and spruce. All fir and most paper birch should be removed.	
Post Harvest Structural Objective: (BA, diameter range, vertical and horizontal structures, etc.)	60 sqft of basal area. Only trees with 35% live crown or greater will be retained. Horizontal structure will be uniform. Only one vertical layer will exist at the conclusion of the harvest.	
Wildlife/Biodiversity Recommendations	Retain all culled and dead trees. <u>Protect</u> all culled and dead trees over 14" in DBH. All mast trees with 30% live crown will be retained (exception: all oak will be retained). Follow all guidelines set forth in the focus species addendum.	
Next Entry (estimated date and treatment type)	15-20 years. Summer or winter Single tree selection	

Area #: 2	Stand #s: 8690, 8654, 8635, 8657, 8552, 8608, 8540, 8463, 8623	Acres: 217 (projected)
Current Stand Description (size, density, structure, composition, quality)	Harvest area #2 is highly variable in most stand qualities. Basal are is highly inconsistent, from 60sqft to 140+ sqft. Species composition includes hemlock, pine, spruce, fir, yellow birch, paper birch, red maple, beech, and cedar. Although some small patches or carpets of regeneration exist, the stand is by in large only one canopy layer, with two cohorts.	
Harvest Objective (thinning, improvement, regeneration, etc.)	Improvement and Release: The primary objectives in area #2 are to release patches of existing regeneration, strengthening that cohorts presence, and thinning the surroundings areas, improving health and growth rates.	
Desired Long-term Condition:	The desired long term condition of area 3 will be an unevenaged stand, with horizontal, as well as vertical diversity. Some areas will exist with vertical diversity, while other areas will have horizontal diversity.	
Silvicultural System and Prescription:	Single Tree and Group Selection (Combined): In areas where desirable regeneration exists, remove surrounding overstory trees (release sites should not be more than 75 feet in diameter. In other areas where no regeneration exists, thin the stand uniformly, giving priority to retaining hemlock, maple, pine and spruce.	
Post Harvest Structural Objective: (BA, diameter range, vertical and horizontal structures, etc.)	Basal area, diameter, horizontal and vertical structures will vary widely throughout the stand. Basal area is expected to range between 40 and 90 sqft.	
Wildlife/Biodiversity Recommendations	Retain all culled and dead trees. Protect all cull and dead trees over 14" in DBH. All mast trees with 30% live crown will be retained (exception: all oak will be retained). Follow all guidelines set forth in the focus species addendum.	
Next Entry (estimated date and treatment type)	15-20 years. Single Tree and group selection. The harvest will be similar to the current proposed harvest, but will likely focus on removing the remaining short lived or intolerant trees.	