

## Run 10

In run 10, a regeneration time lag was added as a constraint, while keeping all the other constraints found in run 7. The regeneration time lag imposed was 2-years for deciduous stands and 5-years for coniferous and mixedwood stands.

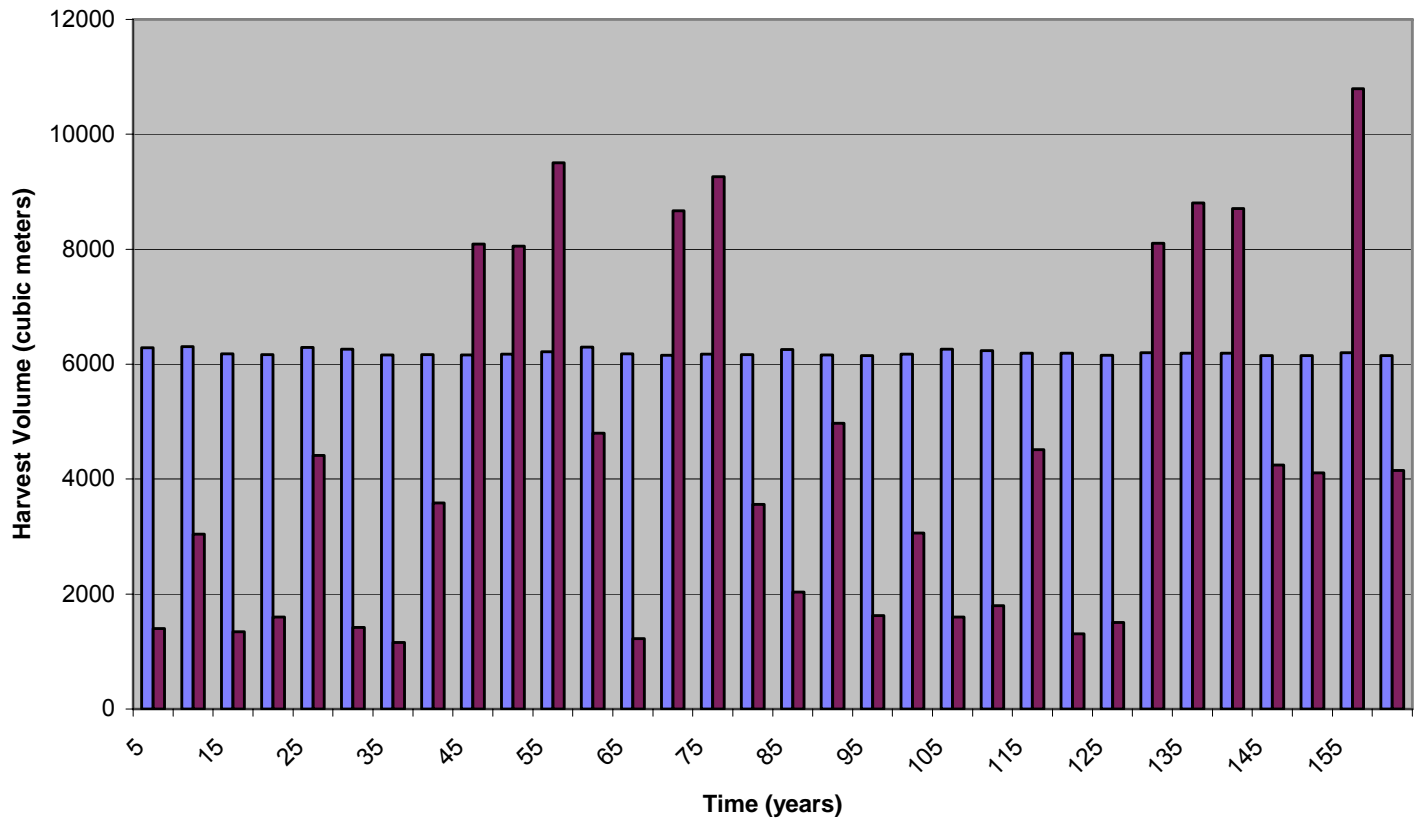
**TABLE 18.26: SUMMARY OF RUN 10 OBJECTIVES, CONSTRAINTS AND RESULTS.**

Forest Management Strategy #	Landbase Strategy	Yield Curve Transition	Primary Species	Flow Constraint	Planning Horizon	Target Harvest Age	Minimum Harvest Age	Planned Blocks Sequenced	Adjacency	Adjacency Horizon	Green Up Period	Accum. Block Area (ha)	Conifer AAC	Deciduous AAC
10	Single	Status Quo with regen lag.	Conifer	Even Flow	160	80	70-Conifer 50-Deciduous	N/A	On	55 years	60 years	50	6,235 (20 yr Avg.)	1,846 (20yr Avg.)

**TABLE 18.27: RUN 10 – ANNUAL HARVEST FLOW SUMMARY**

Period	Coniferous Deciduous	
	Volume	Volume
5	6286	1398
10	6305	3042
15	6179	1345
20	6170	1598
25	6293	4416
30	6264	1421
35	6160	1158
40	6171	3584
45	6164	8091
50	6172	8051
55	6216	9502
60	6299	4797
65	6180	1227
70	6159	8669
75	6176	9263
80	6166	3563
85	6257	2035
90	6159	4972
95	6152	1628
100	6173	3064
105	6258	1600
110	6236	1801
115	6194	4512
120	6192	1305
125	6157	1508
130	6197	8103
135	6195	8808
140	6191	8711
145	6152	4245
150	6152	4109
155	6200	10795
160	6151	4152
20 year average	6235	1846
160 year average	6199	4452

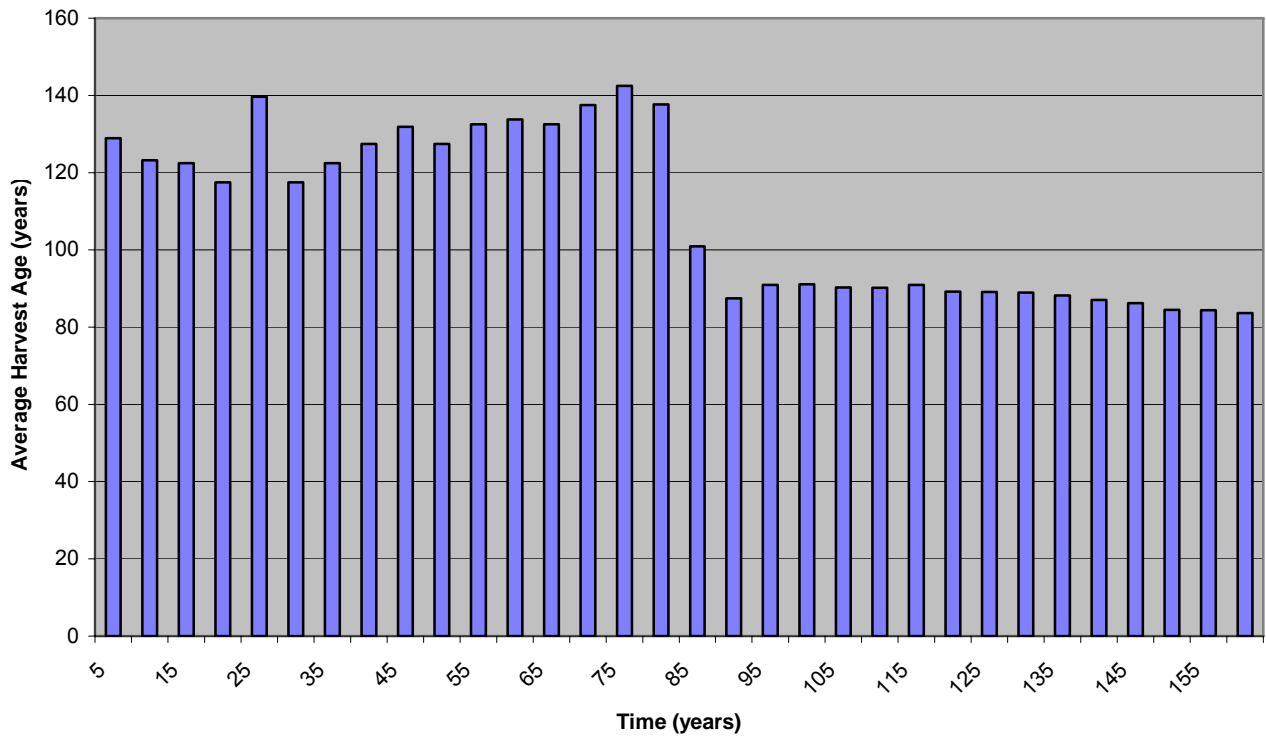
**FIGURE 18.19: RUN 10 – ANNUAL HARVEST FLOW SUMMARY**



**TABLE 18.28: RUN 10 – AVERAGE HARVEST AGE SUMMARY**

<b>Period</b>	<b>Average Harvest Age</b>
5	129
10	123
15	123
20	118
25	140
30	118
35	123
40	128
45	132
50	128
55	133
60	134
65	133
70	138
75	143
80	138
85	101
90	88
95	91
100	91
105	90
110	90
115	91
120	89
125	89
130	89
135	88
140	87
145	86
150	84
155	84
160	84

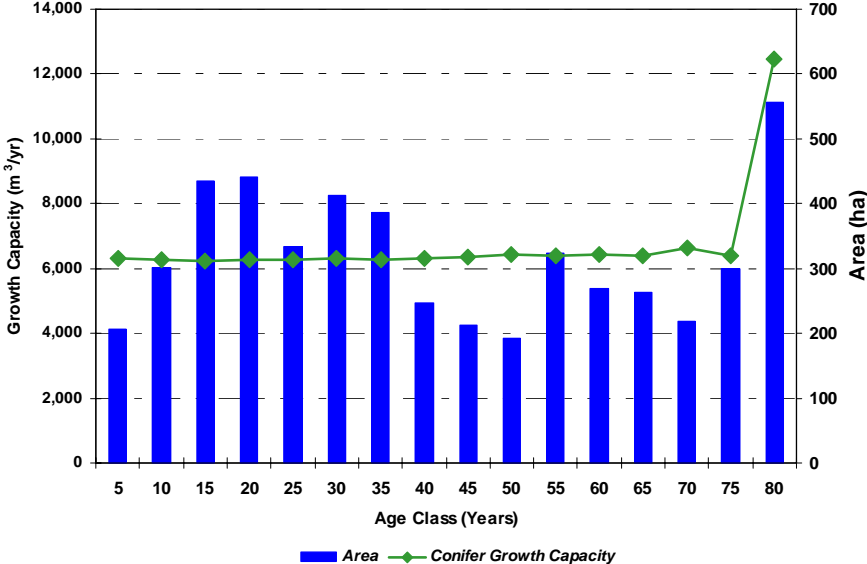
**FIGURE 18.20: RUN 10 – AVERAGE HARVEST AGE SUMMARY**



**TABLE 18.29: RUN 10 – GROWTH CAPACITY AT 160 YEARS.**

Age	Area (ha)	Growth Capacity Total	Annual Growth Capacity
5	328.5	30523.8	6104.76
10	583.5	30341.8	6068.36
15	347.8	30065	6013
20	353.5	29809.7	5961.94
25	479.6	29639	5927.8
30	486.9	29295.9	5859.18
35	449.9	29333.1	5866.62
40	242.8	29450.9	5890.18
45	200.5	29262	5852.4
50	295.2	29210.8	5842.16
55	188.4	29658.1	5931.62
60	174	29399.1	5879.82
65	231.4	28778.4	5755.68
70	173.3	28828.7	5765.74
75	324.5	29476.1	5895.22
80	239.4	31591.1	6318.22
<b>Total</b>	<b>5099.2</b>	<b>474663.5</b>	<b>94932.7</b>

**FIGURE 18.21: RUN 10 – POST HARVEST FOREST CONDITIONS<sup>1</sup> AT 160 YEARS IN FUTURE.**



<sup>1</sup> Projected structure of the net landbase after 160 years. The age class distribution (bars) and harvest age volume (growth capacity – line symbol) associated with each age class are presented.

## Run 8

This run was designed to achieve a dual even-flow of coniferous and deciduous volume while maintaining harvest in the pre-block areas. The solution found by the model was deemed unacceptable as the 20-year spatial harvest sequence could not be implemented operationally while still achieving other goals as defined by the Planning Team. One example is that the single pass into an area could not be maintained within the 20-year spatial harvest sequence while achieving the dual even flow.

**TABLE 18.30: SUMMARY OF RUN 8 OBJECTIVES, CONSTRAINTS AND RESULTS.**

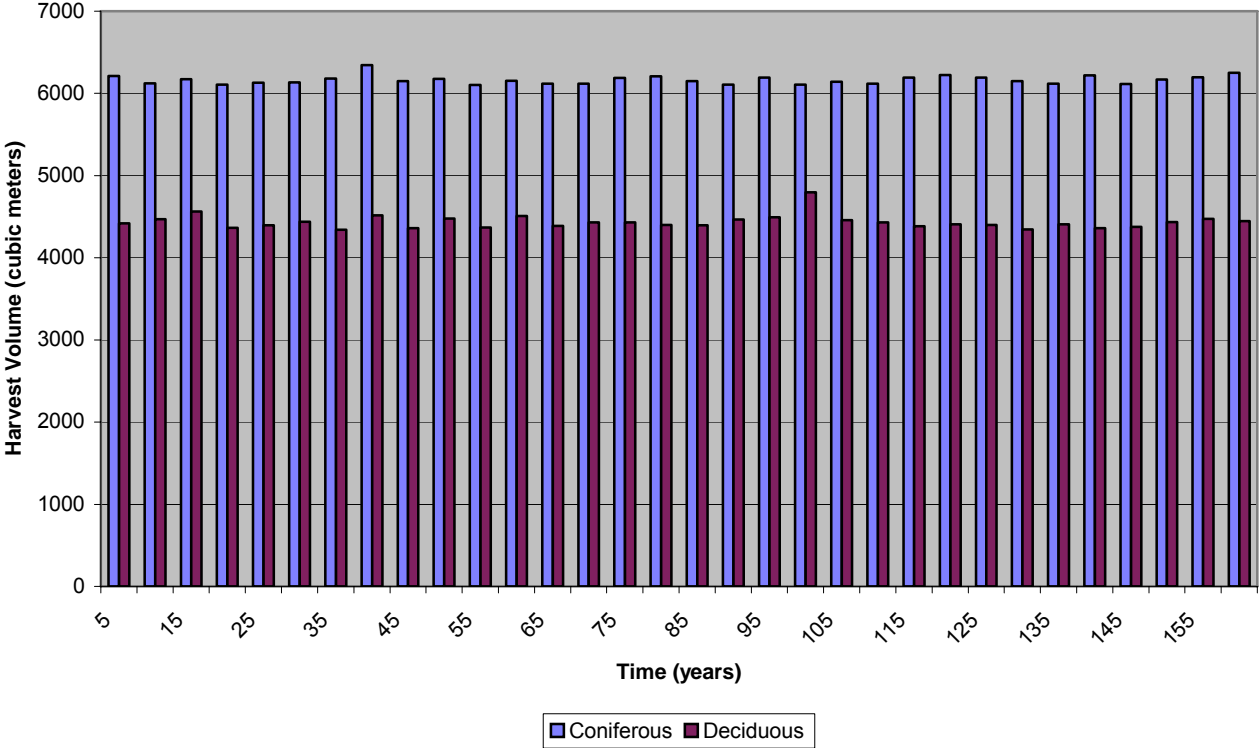
Forest Management Strategy #	Landbase Strategy	Yield Curve Transition	Primary Species	Flow Constraint	Planning Horizon	Target Harvest Age	Minimum Harvest Age	Planned Blocks Sequenced	Adjacency	Adjacency Horizon	Green Up Period	Accum. Block Area (ha)	Conifer AAC	Deciduous AAC
8	Single	Status Quo	Conifer and Deciduous	Dual Even Flow	160	80	70-Conifer 50-Deciduous	Prioritized	Off	N/A	N/A	N/A	6,154 (20 yr Avg.)	4,454 (20yr Avg.)

**TABLE18.31: RUN 8 – ANNUAL HARVEST FLOW SUMMARY**

Period	Coniferous Deciduous	
	Volume	Volume
5	6211	4418
10	6124	4468
15	6173	4564
20	6109	4366
25	6129	4396
30	6134	4438
35	6182	4340
40	6343	4516
45	6152	4361
50	6179	4476
55	6102	4367
60	6155	4509
65	6118	4389
70	6117	4429
75	6189	4429
80	6207	4399
85	6149	4394
90	6107	4467
95	6193	4492
100	6108	4795
105	6142	4456
110	6119	4428
115	6193	4382
120	6222	4408
125	6191	4400
130	6149	4344
135	6117	4405
140	6220	4359
145	6115	4376
150	6171	4434
155	6197	4471
160	6251	4445
20 year average	6154	4454
160 year average	6165	4435



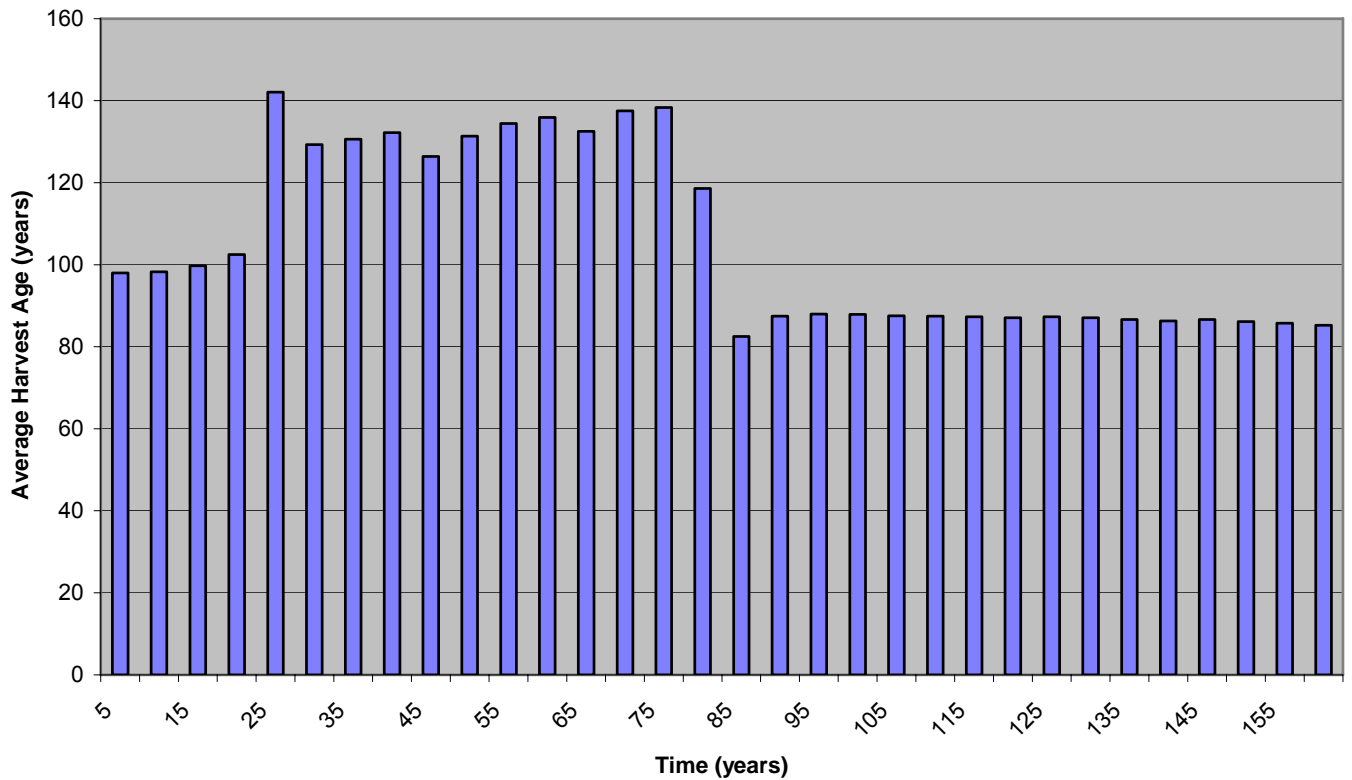
**FIGURE 18.22: RUN 8 – ANNUAL HARVEST FLOW SUMMARY**



**TABLE 18.32: RUN 8 – AVERAGE HARVEST AGE SUMMARY**

Period	Average Harvest Age
5	98
10	98
15	100
20	103
25	142
30	129
35	131
40	132
45	126
50	131
55	134
60	136
65	133
70	138
75	138
80	119
85	83
90	88
95	88
100	88
105	88
110	87
115	87
120	87
125	87
130	87
135	87
140	86
145	87
150	86
155	86
160	85

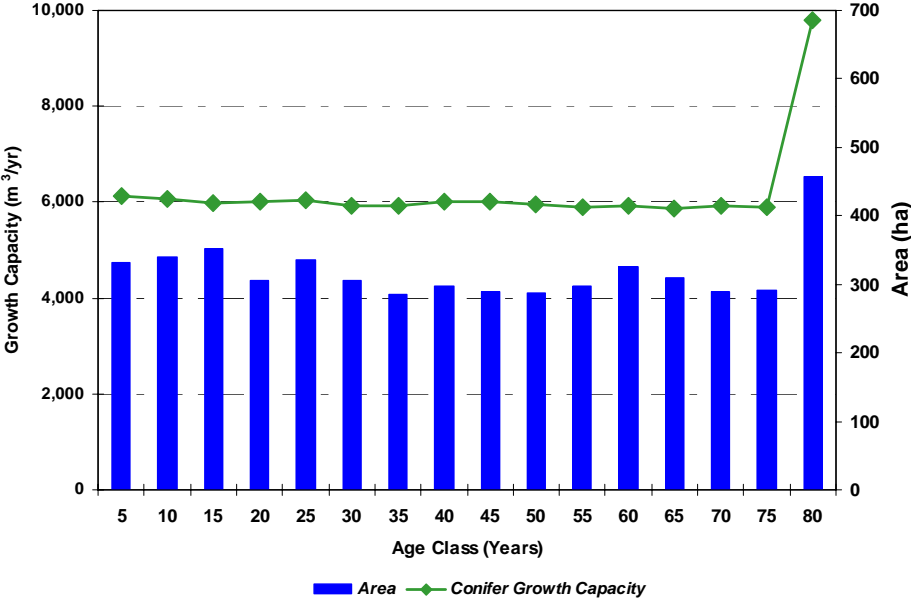
**TABLE 18.23: RUN 8 – AVERAGE HARVEST AGE SUMMARY**



**TABLE 18.33: RUN 8 – GROWTH CAPACITY AT 160 YEARS.**

Age	Area (ha)	Growth Capacity Total	Annual Growth Capacity
5	331.1	30566.4	6113.28
10	339.1	30296.6	6059.32
15	352.1	29962.8	5992.56
20	305.7	30116.8	6023.36
25	336.7	30208.3	6041.66
30	306.2	29580.1	5916.02
35	284.8	29675.5	5935.1
40	297.5	30093.1	6018.62
45	288.5	30009.3	6001.86
50	286.5	29818.8	5963.76
55	297	29483.3	5896.66
60	326.1	29577.9	5915.58
65	310.1	29288.3	5857.66
70	290.1	29674.9	5934.98
75	290.5	29418.2	5883.64
80	456.7	48928.8	9785.76
<b>Total</b>	<b>5098.7</b>	<b>496699.1</b>	<b>99339.82</b>

**FIGURE 18.24: RUN 8 – POST HARVEST FOREST CONDITIONS<sup>1</sup> AT 160 YEARS IN FUTURE.**



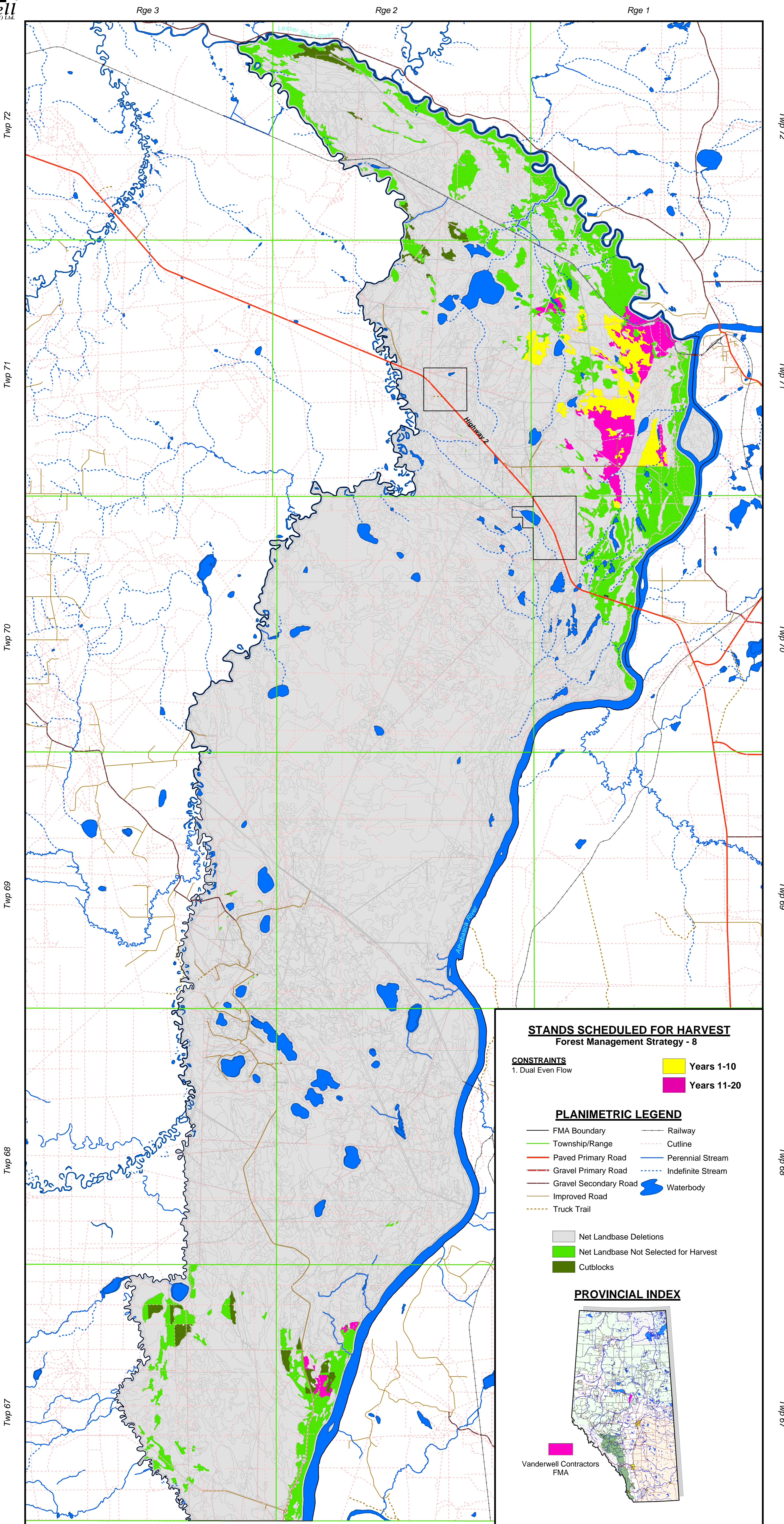
<sup>1</sup> Projected structure of the net landbase after 160 years. The age class distribution (bars) and harvest age volume (growth capacity – line symbol) associated with each age class are presented.





# 20 YEAR HARVEST SEQUENCE

## Within the Vanderwell FMA



### STANDS SCHEDULED FOR HARVEST

#### Forest Management Strategy - 8

#### CONSTRAINTS

1. Dual Even Flow

- Years 1-10
- Years 11-20

#### PLANIMETRIC LEGEND

- FMA Boundary
- Township/Range
- Paved Primary Road
- Gravel Primary Road
- Gravel Secondary Road
- Improved Road
- Truck Trail
- Railway
- Cutline
- Perennial Stream
- Indefinite Stream
- Waterbody

- Net Landbase Deletions
- Net Landbase Not Selected for Harvest
- Cutblocks

#### PROVINCIAL INDEX

