

Appendix O

Private Performance of Optimal Timber Utilisation Policies for Scenario 2

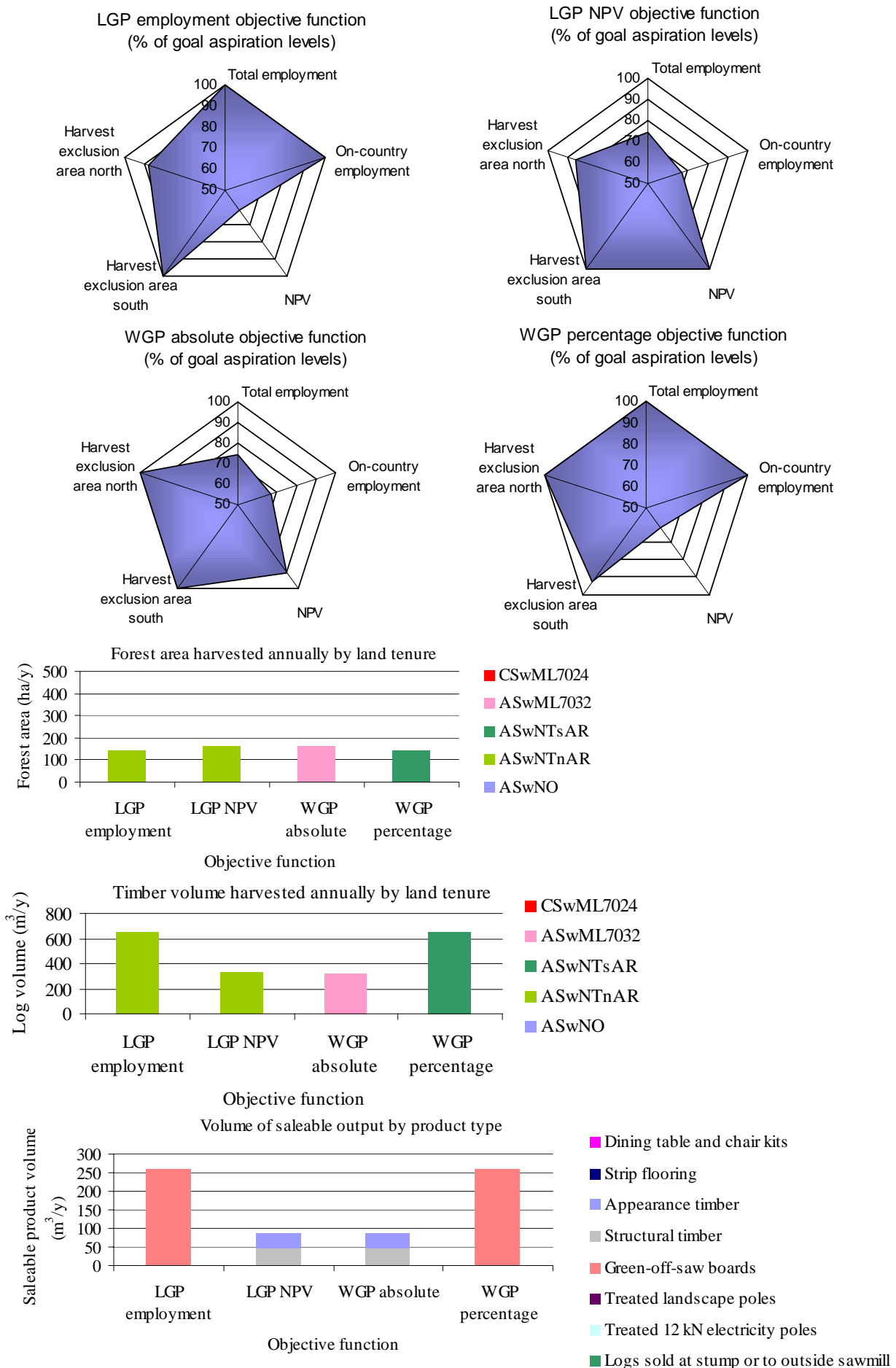


Figure O.1. Relative goal performance levels, areas and volumes harvested, and output by finished product type for Scenario 2 with a \$0.25M budget constraint

Table O.1. Optimal timber utilisation policies for Scenario 2 with a \$0.25M budget constraint

Forestry activity	Optimal timber utilisation policies by implied goal preference structure			
	LGP employment	LGP NPV	WGP absolute	WGP percentage
Forest management	Yes	Yes	Yes	Yes
Oversee outsiders harvesting				
Timber harvesting	1 x 1 cutting team harvesting operations	1 x 1 cutting team harvesting operations	1 x 1 cutting team harvesting operations	1 x 1 cutting team harvesting operations
Portable sawmilling on country	2 portable sawmills	1 portable sawmill	1 portable sawmill	2 portable sawmills
Hauling logs to Aurukun town				
Chemical treatment of electricity and landscape poles in town				
Sawmilling in town				
Chemical treatment of sawn timber in town				
Seasoning of sawn timber in town		80 m ² air drying shed	80 m ² air drying shed	
Manufacturing strip flooring in town				
Manufacturing dining table and chair kits in town				

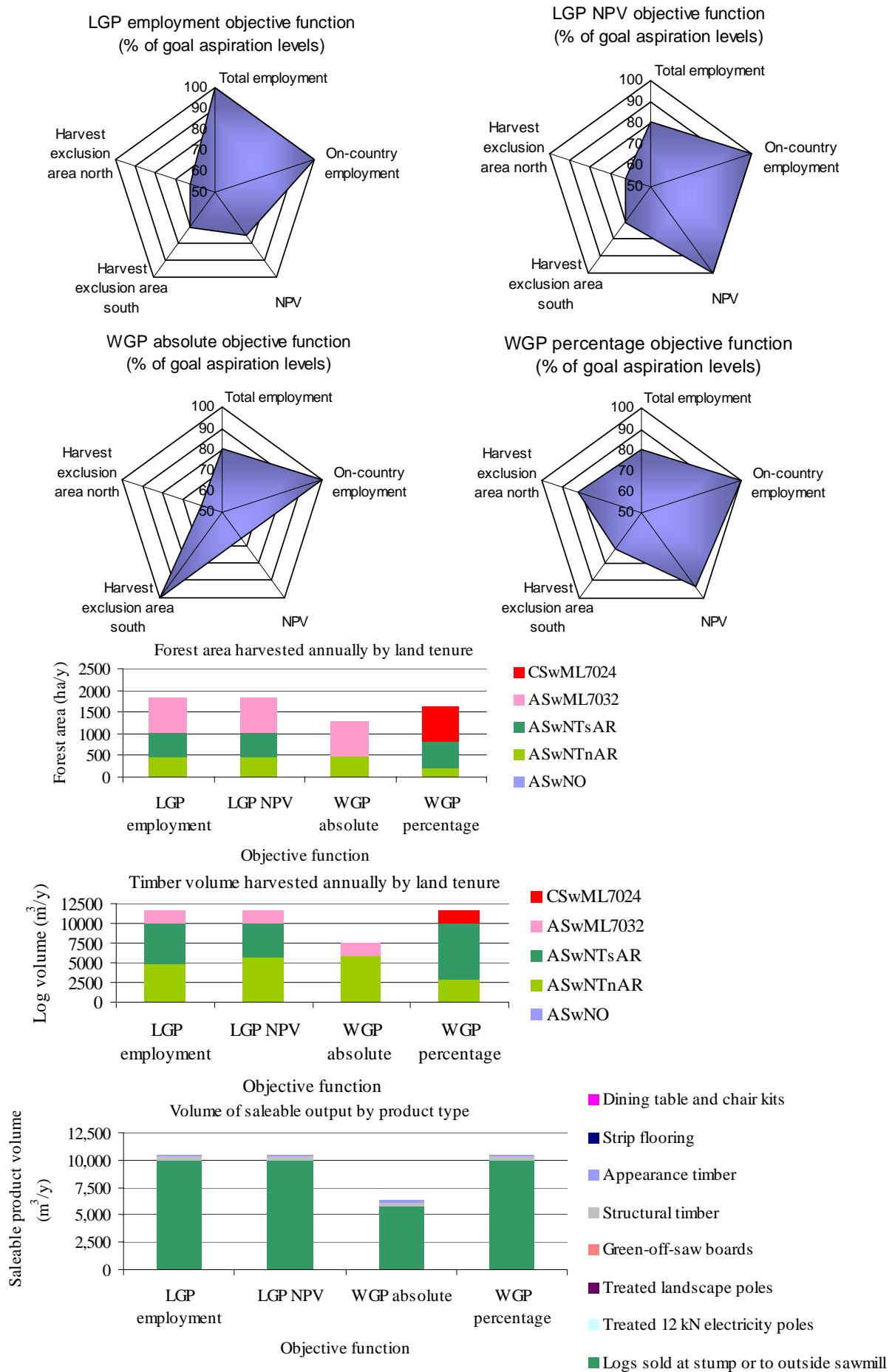


Figure O.2. Relative goal performance levels, areas and volumes harvested, and output by finished product type for Scenario 2 with a \$0.5M budget constraint

Table O.2. Optimal timber utilisation policies for Scenario 2 with a \$0.5M budget constraint

Forestry activity	Optimal timber utilisation policies by implied goal preference structure			
	LGP employment	LGP NPV	WGP absolute	WGP percentage
Forest management	Yes	Yes	Yes	Yes
Oversee outsiders harvesting	Yes	Yes	Yes	Yes
Timber harvesting	1 x 1 cutting team harvesting operations	1 x 1 cutting team harvesting operations	1 x 1 cutting team harvesting operations	1 x 1 cutting team harvesting operations
Portable sawmilling on country	5 portable sawmills	5 portable sawmills	5 portable sawmills	5 portable sawmills
Hauling logs to Aurukun town	1 haulage truck			
Chemical treatment of electricity and landscape poles in town				
Sawmilling in town	1 portable sawmill			
Chemical treatment of sawn timber in town	5 x soak treating facilities	5 x soak treating facilities	5 x soak treating facilities	5 x soak treating facilities
Seasoning of sawn timber in town	400 m ² air drying shed, 1 solar kiln	440 m ² air drying shed	440 m ² air drying shed	440 m ² air drying shed
Manufacturing strip flooring in town				
Manufacturing dining table and chair kits in town				

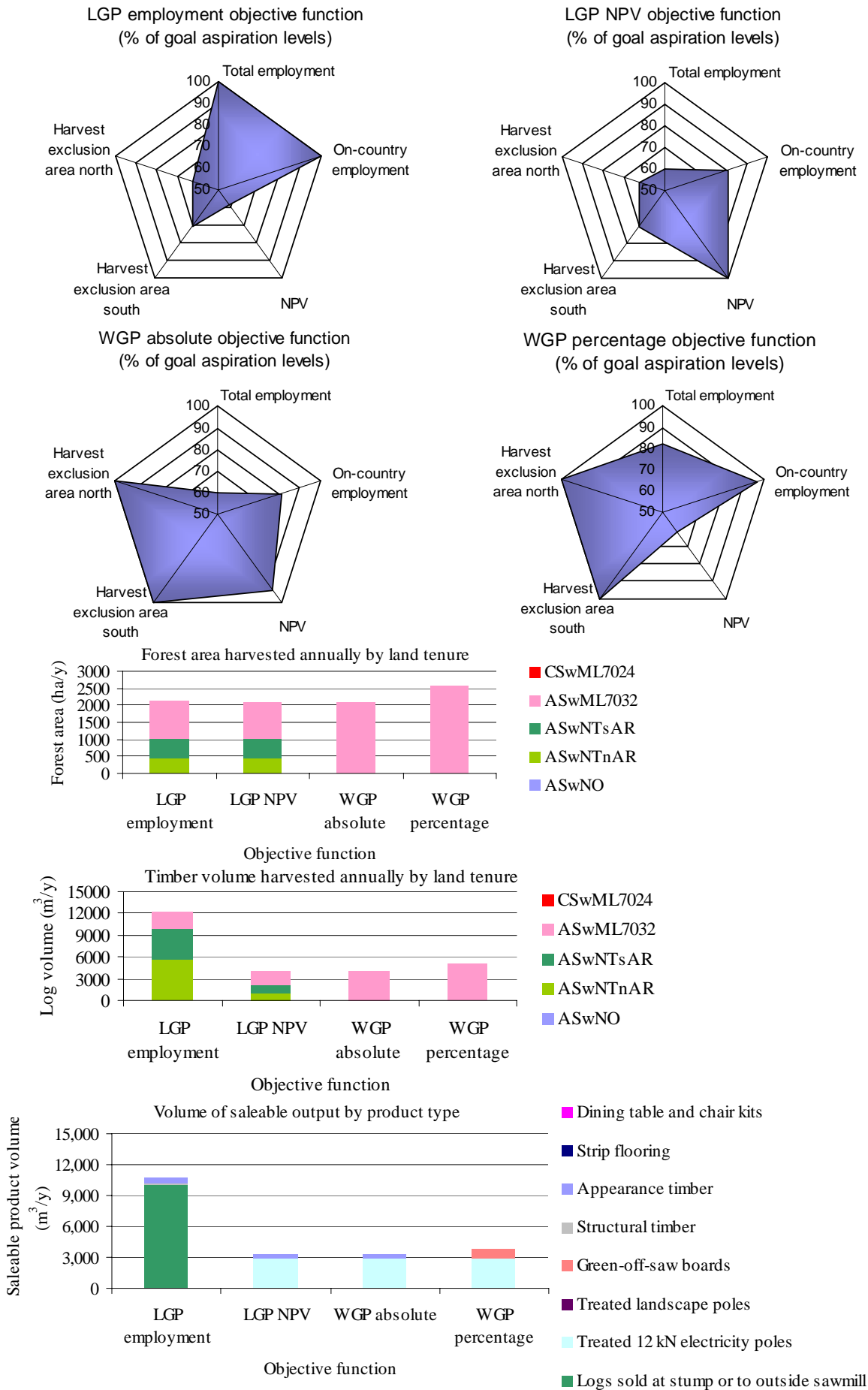


Figure O.3. Relative goal performance levels, areas and volumes harvested, and output by finished product type for Scenario 2 with a \$1M budget constraint

Table O.3. Optimal timber utilisation policies for Scenario 2 with a \$1M budget constraint

Forestry activity	Optimal timber utilisation policies by implied goal preference structure			
	LGP employment	LGP NPV	WGP absolute	WGP percentage
Forest management	Yes	Yes	Yes	Yes
Oversee outsiders harvesting	Yes			
Timber harvesting	1 x 1 cutting team harvesting operations	1 x 2 cutting team harvesting operations	1 x 2 cutting team harvesting operations	1 x 2 cutting team harvesting operations
Portable sawmilling on country	5 portable sawmills	4 portable sawmills	4 portable sawmills	5 portable sawmills
Hauling logs to Aurukun town	1 haulage truck	1 haulage truck	1 haulage truck	1 haulage truck
Chemical treatment of electricity and landscape poles in town		Yes	Yes	Yes
Sawmilling in town	1 portable sawmill			1 portable sawmill
Chemical treatment of sawn timber in town	4 x soak treating facilities	1 x soak treating facility	1 x soak treating facility	
Seasoning of sawn timber in town	400 m ² air drying shed, 9 solar kilns	360 m ² air drying shed	360 m ² air drying shed	
Manufacturing strip flooring in town				
Manufacturing dining table and chair kits in town				

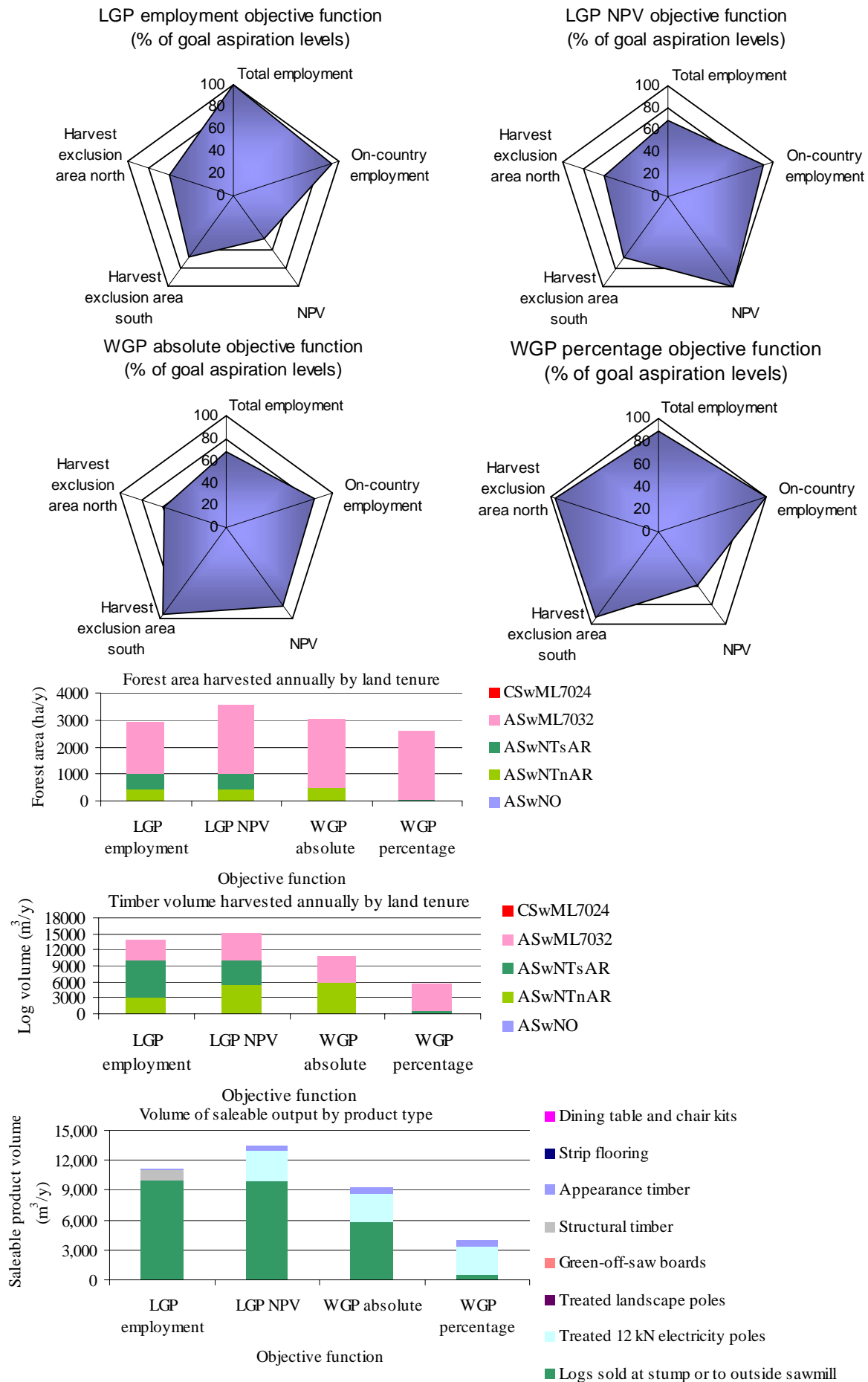


Figure O.4. Relative goal performance levels, areas and volumes harvested, and output by finished product type for Scenario 2 with a \$2M budget constraint

Table O.4. Optimal timber utilisation policies for Scenario 2 with a \$2M budget constraint

Forestry activity	Optimal timber utilisation policies by implied goal preference structure			
	LGP employment	LGP NPV	WGP absolute	WGP percentage
Forest management	Yes	Yes	Yes	Yes
Oversee outsiders harvesting	Yes	Yes	Yes	Yes
Timber harvesting	2 x 1 cutting team harvesting operations	1 x 2 cutting team harvesting operations	1 x 2 cutting team harvesting operations	2 x 1 cutting team harvesting operations
Portable sawmilling on country	5 portable sawmills	5 portable sawmills	5 portable sawmills	5 portable sawmills
Hauling logs to Aurukun town	1 haulage truck	1 haulage truck	1 haulage truck	1 haulage truck
Chemical treatment of electricity and landscape poles in town		Yes	Yes	Yes
Sawmilling in town	1 x 2,200 m ³ capacity sawmill	Portable sawmill	Portable sawmill	Portable sawmill
Chemical treatment of sawn timber in town	10 x soak treating facilities	7 x soak treating facilities	6 x soak treating facilities	7 x soak treating facilities
Seasoning of sawn timber in town	960 m ² air drying shed, 1 solar kiln	680 m ² air drying shed	680 m ² air drying shed	680 m ² air drying shed
Manufacturing strip flooring in town				
Manufacturing dining table and chair kits in town				Yes

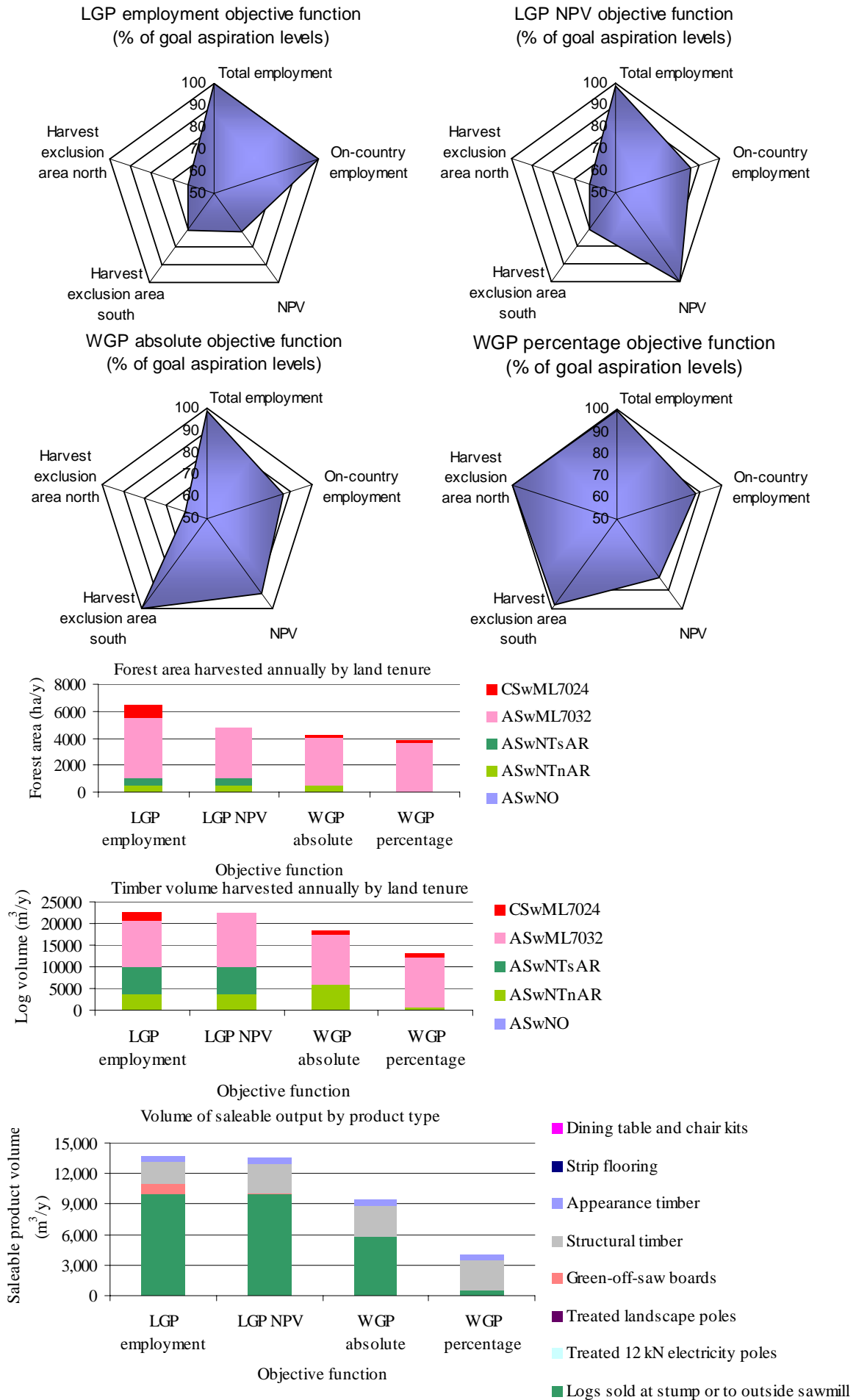


Figure O.5. Relative goal performance levels, areas and volumes harvested, and output by finished product type for Scenario 2 with a \$5M budget constraint

Table O.5. Optimal timber utilisation policies for Scenario 2 with a \$5M budget constraint

Forestry activity	Optimal timber utilisation policies by implied goal preference structure			
	LGP employment	LGP NPV	WGP absolute	WGP percentage
Forest management	Yes	Yes	Yes	Yes
Oversee outsiders harvesting	Yes	Yes	Yes	Yes
Timber harvesting	5 x 1 cutting team harvesting operations	1 x 1 cutting team and 2 x 2 cutting team harvesting operations	1 x 1 cutting team and 2 x 2 cutting team harvesting operations	1 x 1 cutting team and 2 x 2 cutting team harvesting operations
Portable sawmilling on country	5 portable sawmills	5 portable sawmills	5 portable sawmills	5 portable sawmills
Hauling logs to Aurukun town	2 haulage trucks	2 haulage trucks	2 haulage trucks	2 haulage trucks
Chemical treatment of electricity and landscape poles in town			Yes	
Sawmilling in town	1 x 11,000 m ³ capacity sawmill	1 x 11,000 m ³ capacity sawmill	1 x 11,000 m ³ capacity sawmill	1 x 11,000 m ³ capacity sawmill
Chemical treatment of sawn timber in town	8 x soak treating facilities	10 x soak treating facilities	10 x soak treating facilities	10 x soak treating facilities
Seasoning of sawn timber in town	2,400 m ² air drying shed	3,040 m ² air drying shed, 1 solar kiln	3,040 m ² air drying shed	3,040 m ² air drying shed
Manufacturing strip flooring in town				
Manufacturing dining table and chair kits in town				

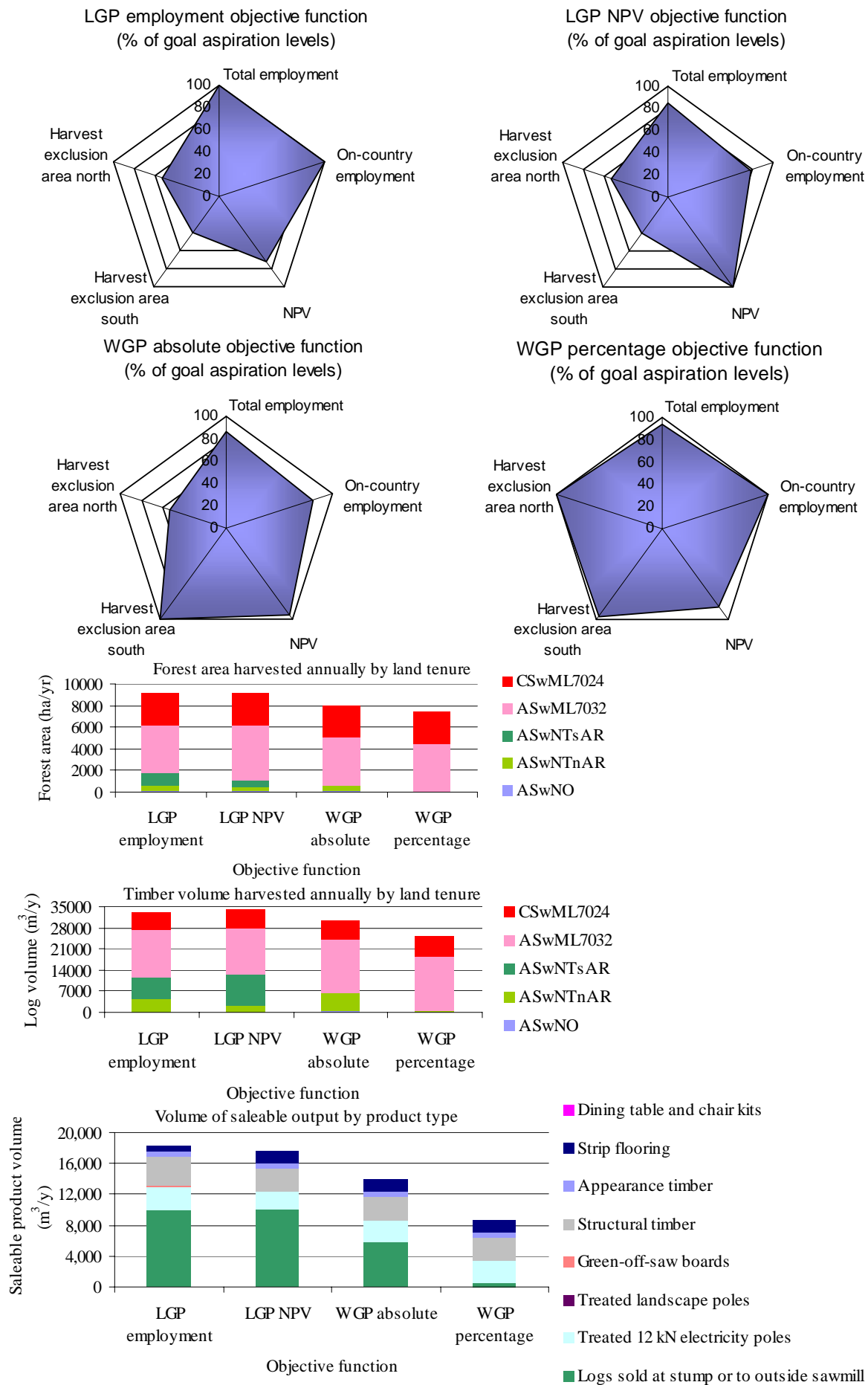


Figure O.6. Relative goal performance levels, areas and volumes harvested, and output by finished product type for Scenario 2 with a \$10M budget constraint

Table O.6. Optimal timber utilisation policies for Scenario 2 with a \$10M budget constraint

Forestry activity	Optimal timber utilisation policies by implied goal preference structure			
	LGP employment	LGP NPV	WGP absolute	WGP percentage
Forest management	Yes	Yes	Yes	Yes
Oversee outsiders harvesting	Yes	Yes	Yes	Yes
Timber harvesting	9 x 1 cutting team harvesting operations	4 x 2 cutting team harvesting operations	1 x 1 cutting team and 4 x 2 cutting team harvesting operations	9 x 1 cutting team harvesting operations
Portable sawmilling on country	5 portable sawmills	5 portable sawmills	5 portable sawmills	5 portable sawmills
Hauling logs to Aurukun town	4 haulage trucks	4 haulage trucks	4 haulage trucks	4 haulage trucks
Chemical treatment of electricity and landscape poles in town	Yes	Yes	Yes	Yes
Sawmilling in town	1 x 20,000 m ³ capacity sawmill	1 x 20,000 m ³ capacity sawmill	1 x 20,000 m ³ capacity sawmill	1 x 20,000 m ³ capacity sawmill
Chemical treatment of sawn timber in town	10 x soak treating facilities	1 x 24 m ³ capacity vacuum pressure treatment facility	1 x 24 m ³ capacity vacuum pressure treatment facility	1 x 24 m ³ capacity vacuum pressure treatment facility
Seasoning of sawn timber in town	4,000 m ² air drying shed, 9 x 24 m ³ and 1 x 40 m ³ capacity combination gas and solar kilns	4,000 m ² air drying shed, 1 x 24 m ³ and 4 x 40 m ³ capacity combination gas and solar kilns	4,000 m ² air drying shed, 1 x 24 m ³ and 4 x 40 m ³ capacity combination gas and solar kilns	3,960 m ² air drying shed, 4 solar kiln, 5 x 24 m ³ and 1 x 40 m ³ capacity combination gas and solar kilns
Manufacturing strip flooring in town	1,050 m ³ capacity flooring plant	3,940 m ³ capacity flooring plant	3,940 m ³ capacity flooring plant	3,940 m ³ capacity flooring plant
Manufacturing dining table and chair kits in town	Yes			

