

Table S9. Hauling truck productivity - Hauling directly to mill

	A	B	C	D
1	Truck Productivity & Cost of Truck Transportation			
2		Summer	Winter	
3	Hours/Day	21	19	
4	Haul distance (km) ¹	250		
5	Average speed (km/hr) (Unloaded/Loaded) [39]	85	55	
6	Load Size (tons)	27.3	39	
7	Load Size (m ³ - Aspen)	59	85	
8	Undloading time (mins) [36]		30	
9	Loading time (mins) [36]		20	
10	Total Trip (hr)		8	
11	Productivity (m ³ /truck)	7.09	10.22	
12	Number of road trips in a day	3	2	
13	Cost per Standing Time (\$/hr)		20	
14	Cost per Truck Running Time (\$/hr)		30	
15	Hauling Cost	Summer	Winter	
16	Fixed Cost (Truck Standby for Loadingand Unloading)	0.28	0.20	
17	Variable Cost (Truck Travel)	3.81	2.64	
18	Total Unit Cost ² (without Operation Cost) (\$/m ³)	4.09	2.84	
19				
20		Weight (tons)	Volume ³ (m ³)	
21	Tare Weight of Truck	20.0		
22	Gross Vehicle Weight Summer	47.3		
23	Gross Vehicle Weight Winter	59.3		
24	Payload Weight Summer ⁴	27.3	59	
25	Payload Weight Winter ⁴	39.3	85	
26				
27	¹ Average hauling distance to satellite yard			
28	² Total unit cost in this section was calculated for based on trucks transportation			
29	³ Wood load size was converted from US ton to m ³ for aspen			
30	⁴ ARGH Industries Ltd (n.d.), Wood converter. Retrieved from: https://www.thecalculatorsite.com/conversions/substances/wood.php			