

**Table 2: Changes in Distribution of Old Growth in the Fort McKay FTSA (Landsat)**

Regional Land Cover Classes	Forest Type (Old Growth Range)	Estimated Occurrence of Old Growth in the FTSA	Pre-Development Scenario		Base Case		Net Change (%) from Pre-Dev to Base Case	Net Change (%) for Jackpine Mine Expansion		Net Change (%) for Pierre River Mine		Net Change (%) at Application Case		Net Change (%) at Application Case - Closure		Net Change (%) at Planned Development Case		Net Change (%) at Far Future (PDC Closure)	
			[ha]	[% of FTSA]	[ha]	[% of FTSA]		Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case	Pre-Dev	Base Case
<b>Old Growth Forested Cover Types</b>																			
coniferous jack pine	pine dominant (16-36%)	26	10,379	3	8,912	2	-14	-15	-1	-15	-1	-16	-2	-12	2	-16	-3	-8	7
coniferous jack pine-black spruce	pine dominant (16-36%)	26	665	<1	634	<1	-5	-5	-1	-5	0	-5	-1	517	547	-9	-4	772	815
coniferous white spruce	white spruce dominant (10-34%)	22	3,727	1	2,710	1	-27	-28	-1	-31	-5	-31	-6	-25	4	-38	-15	75	141
deciduous aspen-balsam poplar	hardwood dominant (14-42%)	28	13,565	4	12,696	3	-6	-7	-1	-7	-1	-8	-2	-3	4	-78	-77	26	34
mixedwood aspen-jack pine	mixedwood dominant (16-38%)	27	1,777	<1	1,567	<1	-12	-12	<-1	-12	0	-12	<-1	27	44	-13	-2	68	91
mixedwood aspen-white spruce	mixedwood dominant (16-38%)	27	11,804	3	10,456	3	-11	-13	-2	-15	-4	-17	-6	-11	1	-28	-19	24	40
treed bog/poor fen	black spruce dominant (12-28%)	20	12,856	3	9,529	3	-26	-31	-6	-29	-4	-33	-10	-33	-10	-36	-14	-36	-14
treed fen	black spruce dominant (12-28%)	20	13,765	4	10,719	3	-22	-26	-5	-27	-7	-31	-11	-31	-11	-34	-15	-32	-13
<i>uplands old growth subtotals</i>			<i>41917</i>	<i>11</i>	<i>36975</i>	<i>9</i>	<i>-12</i>	<i>-13</i>	<i>-1</i>	<i>-13</i>	<i>-2</i>	<i>-15</i>	<i>-3</i>	<i>0</i>	<i>14</i>	<i>-41</i>	<i>-34</i>	<i>35</i>	<i>53</i>
<i>wetlands old growth subtotal</i>			<i>26,621</i>	<i>7</i>	<i>20,248</i>	<i>6</i>	<i>-24</i>	<i>-28</i>	<i>-6</i>	<i>-28</i>	<i>-5</i>	<i>-32</i>	<i>-11</i>	<i>-32</i>	<i>-11</i>	<i>-35</i>	<i>-14</i>	<i>-34</i>	<i>-13</i>
<i>old growth forested cover types subtotal</i>			<i>68,539</i>	<i>18</i>	<i>57,223</i>	<i>15</i>	<i>-17</i>	<i>-19</i>	<i>-3</i>	<i>-19</i>	<i>-3</i>	<i>-21</i>	<i>-6</i>	<i>-12</i>	<i>5</i>	<i>-39</i>	<i>-27</i>	<i>8</i>	<i>29</i>
<b>Non-Old Growth Forested Cover Types</b>																			
non-old growth forest	n/a	n/a	222,733	59	178,206	47	-20	-20	-1	-21	-1	-23	-4	-17	4	-26	-8	3	28
<i>non-old growth forested cover types subtotal</i>			<i>222,733</i>	<i>59</i>	<i>178,206</i>	<i>47</i>	<i>-20</i>	<i>-20</i>	<i>-1</i>	<i>-21</i>	<i>-1</i>	<i>-23</i>	<i>-4</i>	<i>-17</i>	<i>4</i>	<i>-26</i>	<i>-8</i>	<i>3</i>	<i>28</i>
<b>Non-Forested Cover Types</b>																			
non-treed wetlands	n/a	n/a	38,388	10	25,551	7	-33	-39	-9	-37	-6	-43	-15	-36	-4	-45	-17	4	56
<i>non-forested cover types subtotal</i>			<i>38,388</i>	<i>10</i>	<i>25,551</i>	<i>7</i>	<i>-33</i>	<i>-39</i>	<i>-9</i>	<i>-37</i>	<i>-6</i>	<i>-43</i>	<i>-15</i>	<i>-36</i>	<i>-4</i>	<i>-45</i>	<i>-17</i>	<i>4</i>	<i>56</i>
<b>Other</b>																			
burn	n/a	n/a	40,061	11	6,863	2	-83	-90	-43	-83	0	-90	-43	-90	-43	-90	-43	-90	-43
cloud	n/a	n/a	67	<1	0	0	-100.0 (b)	-100.0 (b)	(a)	-100.0 (b)	(a)	-100.0 (b)	(a)	-100.0 (b)	(a)	-100.0 (b)	(a)	-100.0 (b)	(a)
cutblock	n/a	n/a	2	<1	4,716	1	235700	231950	-2	216050	-8	212350	-10	212350	-10	212350	-10	213200	-10
disturbed	n/a	n/a	0	0	93,217	25	(a)	(a)	14	(a)	11	(a)	24	(a)	-9	(a)	45	(a)	-94
water	n/a	n/a	9,851	3	9,150	2	-7	-7	0	-8	-1	-8	-1	63	75	-8	-1	140	158
<i>other subtotal</i>			<i>49,981</i>	<i>13</i>	<i>113,946</i>	<i>30</i>	<i>128</i>	<i>147</i>	<i>8</i>	<i>147</i>	<i>9</i>	<i>167</i>	<i>17</i>	<i>119</i>	<i>-4</i>	<i>205</i>	<i>34</i>	<i>-25</i>	<i>-67</i>
<b>Total</b>			<b>379,641</b>	<b>100</b>	<b>379,641</b>	<b>100</b>													

Note: Some numbers are rounded for presentation purposes. Therefore, it may appear that the totals do not equal the sum of the individual value.

a - undefinable in % as base case or pre-development scenario = 0

b - net change is represented by a loss of -100 % because resulting area = 0 ha