

Table 6: Changes in the Abundance of Ecosite Phases and Wetlands Types in the Fort McKay FTSA(AVI)

Map Code	Description	Late-1990s Scenario		Base Case		Net Change from Late 1990's to Base Case	Net Change (%) for Jackpine Project		Net Change (%) for Pierre River Mine		Net Change (%) at Application Case		Net Change (%) at Closure		
		[ha]	[%]	[ha]	[%]	[%]	Late 1990s	Base	Late 1990s	Base	Late 1990s	Base	Late 1990s	Base	
Athabasca Plain Natural Subregion Ecosite Phases															
a1	bearberry jack pine	36,646	10	34,368	9	-6	-6	0	-8	-2	-8	-2	-7	-1	
b1	Canada buffalo-berry-green alder jack pine-aspen-white birch	9,561	3	9,087	2	-5	-5	0	-14	-9	-14	-9	-14	-9	
b2	Canada buffalo-berry-green alder aspen	3,800	1	3,532	1	-7	-7	0	-23	-17	-23	-17	1	8	
b3	Canada buffalo-berry-green alder aspen-white spruce-black spruce	3,531	1	3,483	1	-1	-1	0	-32	-31	-32	-31	-18	-17	
b4	Canada buffalo-berry-green alder white spruce-black spruce-jack pine	4,083	1	4,064	1	0	0	0	-15	-14	-15	-14	-14	-14	
c1	Labrador tea-mesic jack pine-black spruce	479	<1	409	<1	-15	-15	0	-18	-4	-18	-4	363	443	
d1	Labrador tea-subhygic black spruce-jack pine	512	<1	441	<1	-14	-14	0	-31	-20	-31	-20	557	663	
e1	willow/horsetail aspen-white birch-balsam poplar	668	<1	634	<1	-5	-5	0	-9	-4	-9	-4	-9	-4	
e2	willow/horsetail aspen-white spruce-black spruce	1,356	<1	1,271	<1	-6	-6	0	-33	-28	-33	-28	-21	-16	
e3	willow/horsetail white spruce-black spruce	270	<1	270	<1	0	0	0	-7	-7	-7	-7	191	191	
PJ-Lt Comp	jack pine-tamarack complex	45	<1	15	<1	-67	-67	0	-73	-20	-73	-20	-73	-20	
<i>Athabasca Plain ecosite phase subtotal</i>		<i>60,951</i>	<i>16</i>	<i>57,576</i>	<i>15</i>	<i>-6</i>	<i>-6</i>	<i>0</i>	<i>-13</i>	<i>-8</i>	<i>-13</i>	<i>-8</i>	<i>-1</i>	<i>5</i>	
Boreal Highlands Natural Subregion Ecosite Phases															
<i>Boreal Highlandecosite phase subtotal</i>		<i>14,891</i>	<i>4</i>	<i>14,887</i>	<i>4</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	
Central Mixedwood Natural Subregion Ecosite Phases															
a1	lichen jack pine	5999	2	4,508	1	-25	-26	-1	-25	<-1	-26	-2	-9	22	
b1	blueberry jack pine-aspen	9,132	2	6,509	2	-29	-33	-6	-30	-2	-34	-8	-31	-4	
b2	blueberry aspen (white birch)	4,756	1	4,450	1	-6	-8	-2	-7	-1	-9	-3	-9	-3	
b3	blueberry aspen-white spruce	6,466	2	5,367	1	-17	-18	-1	-19	-2	-19	-3	-19	-3	
b4	blueberry white spruce-jack pine	1,399	<1	1,065	<1	-24	-28	-5	-34	-13	-38	-18	-14	13	
c1	Labrador tea-mesic jack pine-black spruce	2,404	1	1,721	<1	-28	-30	-2	-29	<-1	-30	-2	79	151	
d1	low-bush cranberry aspen	44,514	12	33,026	9	-26	-27	-1	-27	-1	-27	-2	-24	3	
d2	low-bush cranberry aspen-white spruce	23,841	6	19,943	5	-16	-17	-1	-18	-2	-19	-3	-13	4	
d3	low-bush cranberry white spruce	8,940	2	7,426	2	-17	-18	-1	-18	-1	-19	-3	-19	-3	
e1	dogwood balsam poplar-aspen	4,297	1	3,563	1	-17	-17	0	-17	<-1	-17	<-1	-17	<-1	
e2	dogwood balsam poplar-white spruce	2,347	1	1,744	<1	-26	-26	-1	-27	-2	-28	-3	-28	-3	
e3	dogwood white spruce	781	<1	357	<1	-54	-54	0	-60	-12	-60	-12	-60	-12	
f1	horsetail balsam poplar-aspen	0	0	0	0	0	0	0	0	0	0	0	0	0	
f2	horsetail balsam poplar-white spruce	0	0	0	0	0	0	0	0	0	0	0	0	0	
f3	horsetail white spruce	0	0	0	0	0	0	0	0	0	0	0	0	0	
g1	Labrador tea-subhygic black spruce-jack pine	2,923	1	1,631	<1	-44	-46	-3	-45	-1	-46	-4	144	337	
h1	Labrador tea/horsetail white spruce-black spruce	6,451	2	4,609	1	-29	-30	-2	-29	-1	-31	-4	-30	-2	
PJ-Lt Comp	jack pine-tamarack complex	177	<1	94	<1	-47	-55	-15	-47	0	-55	-15	-55	-15	
<i>Central Mixedwood ecosite phase subtotal</i>		<i>124,428</i>	<i>33</i>	<i>96,014</i>	<i>25</i>	<i>-23</i>	<i>-24</i>	<i>-2</i>	<i>-24</i>	<i>-2</i>	<i>-25</i>	<i>-3</i>	<i>-14</i>	<i>12</i>	
Wetlands															
BFNN	forested bog	600	<1	341	<1	-43	-43	0	-51	-13	-51	-13	-51	-13	

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		[ha]	[%]	[ha]	[%]	[%]	Late 1990s	Base	Late 1990s	Base	Late 1990s	Base	Late 1990s	Base	
BTNN	wooded bog	37,683	10	28,508	8	-24	-27	-4	-27	-3	-29	-7	-29	-7	
FFNN	forested fen	111	<1	57	<1	-49	-50	-4	-49	0	-50	-4	-50	-4	
FONG	graminoid fen	8,077	2	6416	2	-21	-29	-11	-22	-2	-31	-13	-31	-13	
FONS	shrubby fen	30,313	8	22,057	6	-27	-34	-10	-32	-6	-39	-16	-39	-16	
FTNN	wooded fen	43,921	12	31,287	8	-29	-37	-12	-31	-3	-40	-15	-40	-15	
MONG	marsh	201	<1	144	<1	-28	-28	0	-28	0	-28	0	-28	0	
SONS	shrubby swamp	8,859	2	7,080	2	-20	-25	-7	-22	-2	-27	-9	-27	-9	
STNN	wooded swamp	5,556	1	4,291	1	-23	-23	-1	-25	-3	-26	-4	-26	-4	
WONN	shallow open water	1,098	<1	845	<1	-23	-23	<-1	-26	-4	-26	-4	-26	-4	
<i>wetlands subtotal</i>		<i>136,419</i>	<i>36</i>	<i>101,027</i>	<i>27</i>	<i>-26</i>	<i>-32</i>	<i>-8</i>	<i>-29</i>	<i>-4</i>	<i>-35</i>	<i>-12</i>	<i>-35</i>	<i>-12</i>	
Miscellaneous Vegetation Types															
BUu	burned upland	810	<1	2,223	1	174	54	-44	174	0	54	-44	54	-44	
BUw	burned wetlands ^(a)	319	<1	2,589	1	712	116	-73	712	0	116	-73	116	-73	
Cb	cutbank	93	<1	92	<1	-1	-1	0	-1	0	-1	0	-1	0	
Me	meadow	574	<1	525	<1	-9	-9	0	-9	-1	-9	-1	-9	-1	
Sh	shrubland	1,700	<1	1,510	<1	-11	-11	<-1	-11	0	-11	<-1	151	182	
<i>miscellaneous vegetation types subtotal</i>		<i>3,496</i>	<i>1</i>	<i>6,940</i>	<i>2</i>	<i>99</i>	<i>16</i>	<i>-41</i>	<i>98</i>	<i><-1</i>	<i>16</i>	<i>-42</i>	<i>95</i>	<i>-2</i>	
Non-Vegetation Types															
Lake	lake	4771	1	4363	1	-9	-10	-1	-10	-1	-11	-2	109	128	
Littoral	littoral zone	0	0	0	0	0	0	0	0	0	0	0	0	0	
River	river	5254	1	5253	1	<-1	<-1	0	<-1	<-1	<-1	<-1	<-1	<-1	
Sand	sand	129	<1	129	<1	0	0	0	-4	-4	-4	-4	-4	-4	
<i>non-vegetation types subtotal</i>		<i>10153</i>	<i>3</i>	<i>9745</i>	<i>3</i>	<i>-4</i>	<i>-5</i>	<i>-1</i>	<i>-5</i>	<i>-1</i>	<i>-5</i>	<i>-1</i>	<i>63</i>	<i>70</i>	
Disturbances															
CC	cutblock	3,995	1	3,442	1	-14	-15	-1	-25	-13	-26	-15	-26	-15	
DIS	disturbance	25,303	7	90,004	24	256	306	14	296	11	346	25	223	-9	
<i>disturbances subtotal</i>		<i>29,298</i>	<i>8</i>	<i>93,446</i>	<i>25</i>	<i>219</i>	<i>262</i>	<i>13</i>	<i>252</i>	<i>10</i>	<i>295</i>	<i>24</i>	<i>189</i>	<i>-9</i>	
Total		379,635	100	379,635	100										
<i>Uplands Subtotal</i>		<i>200,270</i>	<i>53</i>	<i>168,477</i>	<i>44</i>	<i>-28</i>	<i>-30</i>	<i>-2</i>	<i>-37</i>	<i>-9</i>	<i>-38</i>	<i>-11</i>	<i>-15</i>	<i>16</i>	
<i>Wetlands Subtotal</i>		<i>136,419</i>	<i>36</i>	<i>101,027</i>	<i>27</i>	<i>-26</i>	<i>-32</i>	<i>-8</i>	<i>-29</i>	<i>-4</i>	<i>-35</i>	<i>-12</i>	<i>-35</i>	<i>-12</i>	
<i>Miscellaneous Subtotal</i>		<i>3,496</i>	<i>1</i>	<i>6,940</i>	<i>2</i>	<i>99</i>	<i>16</i>	<i>-41</i>	<i>98</i>	<i>0</i>	<i>16</i>	<i>-42</i>	<i>95</i>	<i>-2</i>	
<i>Non-Vegetation Subtotal</i>		<i>10,153</i>	<i>3</i>	<i>9,745</i>	<i>3</i>	<i>-4</i>	<i>-5</i>	<i>-1</i>	<i>-5</i>	<i>-1</i>	<i>-5</i>	<i>-1</i>	<i>63</i>	<i>70</i>	
<i>Disturbances Subtotal</i>		<i>29,298</i>	<i>8</i>	<i>93,446</i>	<i>25</i>	<i>219</i>	<i>262</i>	<i>13</i>	<i>252</i>	<i>10</i>	<i>295</i>	<i>24</i>	<i>189</i>	<i>-9</i>	

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