

Table 10: Changes in the Abundance of Rare Plant Potential Classes in the Fort McKay FTSA (AVI)

Map Code	Description	Rare Plant Ranking	Late-1990s Scenario		Base Case		Net Change from Late 1990s 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	moderate	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	moderate	9,561	3	9,087	2	-5	-5	0	-14	-9	-14	-9	-14	-9
b2	Canada buffalo-berry-green alder aspen	moderate	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	moderate	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	moderate	4,083	1	4,064	1	0	0	0	-15	-14	-15	-14	-14	-14
c1	Labrador tea-mesic jack pine-black spruce	moderate	479	<1	409	<1	-15	-15	0	-18	-4	-18	-4	363	443
e1	willow/horsetail aspen-white birch-balsam poplar	moderate	668	<1	634	<1	-5	-5	0	-9	-4	-9	-4	-9	-4
PJ-Lt Com	jack pine-tamarack complex	moderate	45	<1	15	<1	-67	-67	0	-73	-20	-73	-20	-73	-20
d1	Labrador tea-subhygic black spruce-jack pine	low	512	<1	441	<1	-14	-14	0	-31	-20	-31	-20	557	663
e2	willow/horsetail aspen-white spruce-black spruce	low	1,356	<1	1,271	<1	-6	-6	0	-33	-28	-33	-28	-21	-16
e3	willow/horsetail white spruce-black spruce	low	270	<1	270	<1	0	0	0	-7	-7	-7	-7	191	191
<i>Athabasca Plain ecosite phase Moderate rare plant potential subtotal</i>			<i>58,813</i>	<i>16</i>	<i>55,592</i>	<i>14</i>	<i>-5</i>	<i>-5</i>	<i>0</i>	<i>-12</i>	<i>-7</i>	<i>-12</i>	<i>-7</i>	<i>-6</i>	<i><-1</i>
<i>Athabasca Plain ecosite phase Low rare plant potential subtotal</i>			<i>2,138</i>	<i><1</i>	<i>1,982</i>	<i><1</i>	<i>-7</i>	<i>-7</i>	<i>0</i>	<i>-29</i>	<i>-23</i>	<i>-29</i>	<i>-23</i>	<i>144</i>	<i>164</i>
Boreal Highlands Natural Subregion Ecosite Phases *															
<i>Boreal Highland ecosite phase Low rare plant potential subtotal</i>			<i>6,661</i>	<i>1</i>	<i>6,660</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Central Mixedwood Natural Subregion Ecosite Phases															
a1	lichen jack pine	moderate	5999	2	4,508	1	-25	-26	-1	-25	<-1	-26	-2	-9	22
b1	blueberry jack pine-aspen	moderate	9,132	2	6,509	2	-29	-33	-6	-30	-2	-34	-8	-31	-4
b2	blueberry aspen (white birch)	moderate	4,756	1	4,450	1	-6	-8	-2	-7	-1	-9	-3	-9	-3
b3	blueberry aspen-white spruce	moderate	6,466	2	5,367	1	-17	-18	-1	-19	-2	-19	-3	-19	-3
b4	blueberry white spruce-jack pine	moderate	1,399	<1	1,065	<1	-24	-28	-5	-34	-13	-38	-18	-14	13
c1	Labrador tea-mesic jack pine-black spruce	moderate	2,404	1	1,721	<1	-28	-30	-2	-29	<-1	-30	-2	79	151
PJ-Lt Com	jack pine-tamarack complex	moderate	177	<1	94	<1	-47	-55	-15	-47	0	-55	-15	-55	-15
d1	low-bush cranberry aspen	low	44,514	12	33,026	9	-26	-27	-1	-27	-1	-27	-2	-24	3
d2	low-bush cranberry aspen-white spruce	low	23,841	6	19,943	5	-16	-17	-1	-18	-2	-19	-3	-13	4
d3	low-bush cranberry white spruce	low	8,940	2	7,426	2	-17	-18	-1	-18	-1	-19	-3	-19	-3
e1	dogwood balsam poplar-aspen	low	4,297	1	3,563	1	-17	-17	0	-17	0	-17	<-1	-17	<-1
e2	dogwood balsam poplar-white spruce	low	2,347	1	1,744	<1	-26	-26	-1	-27	-2	-28	-3	-28	-3
e3	dogwood white spruce	low	781	<1	357	<1	-54	-54	0	-60	-12	-60	-12	-60	-12
f1	horsetail balsam poplar-aspen	low	0	0	0	0	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
f2	horsetail balsam poplar-white spruce	low	0	0	0	0	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
f3	horsetail white spruce	low	0	0	0	0	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
g1	Labrador tea-subhygic black spruce-jack pine	low	2,923	1	1,631	<1	-44	-46	-3	-45	-1	-46	-4	144	337
h1	Labrador tea/horsetail white spruce-black spruce	low	6,451	2	4,609	1	-29	-30	-2	-29	-1	-31	-4	-30	-2
<i>Central Mixedwood ecosite phase Moderate rare plant potential subtotal</i>			<i>30,333</i>	<i>8</i>	<i>23,714</i>	<i>5</i>	<i>-22</i>	<i>-24</i>	<i>-3</i>	<i>-23</i>	<i>-2</i>	<i>-25</i>	<i>-5</i>	<i>-11</i>	<i>13</i>
<i>Central Mixedwood ecosite phase Low rare plant potential subtotal</i>			<i>94,094</i>	<i>25</i>	<i>72,299</i>	<i>18</i>	<i>-23</i>	<i>-24</i>	<i>-1</i>	<i>-24</i>	<i>-1</i>	<i>-25</i>	<i>-3</i>	<i>-15</i>	<i>11</i>
Wetlands															
FONG	graminoid fen	high	8,077	2	6416	2	-21	-29	-11	-22	-2	-31	-13	-31	-13
FONS	shrubby fen	high	30,313	8	22,057	6	-27	-34	-10	-32	-6	-39	-16	-39	-16
FTNN	wooded fen	high	43,921	12	31,287	8	-29	-37	-12	-31	-3	-40	-15	-40	-15

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			[ha]	[%]	[ha]	[%]	%	Late 1990s	Base	Late 1990s	Base	Late 1990s	Base	Late 1990s	Base
MONG	marsh	high	201	<1	144	<1	-28	-28	0	-28	0	-28	0	-28	0
SONS	shrubby swamp	high	8,859	2	7,080	2	-20	-25	-7	-22	-2	-27	-9	-27	-9
WONN	shallow open water	high	1,098	<1	845	<1	-23	-23	<-1	-26	-4	-26	-4	-26	-4
STNN	wooded swamp	moderate	5,556	1	4,291	1	-23	-23	-1	-25	-3	-26	-4	-26	-4
FFNN	forested fen **	moderate	111	<1	57	<1	-49	-50	-4	-49	0	-50	-4	-50	-4
BFNN	forested bog	low	600	<1	341	<1	-43	-43	0	-51	-13	-51	-13	-51	-13
BTNN	wooded bog	low	37,683	10	28,508	8	-24	-27	-4	-27	-3	-29	-7	-29	-7
<i>wetlands High rare plant potential subtotal</i>			<i>92,469</i>	<i>24</i>	<i>67,829</i>	<i>18</i>	<i>-27</i>	<i>-34</i>	<i>-10</i>	<i>-30</i>	<i>-4</i>	<i>-37</i>	<i>-14</i>	<i>-37</i>	<i>-14</i>
<i>wetlands Moderate rare plant potential subtotal</i>			<i>5,667</i>	<i>1</i>	<i>4,348</i>	<i>1</i>	<i>-23</i>	<i>-24</i>	<i>-1</i>	<i>-25</i>	<i>-3</i>	<i>-26</i>	<i>-4</i>	<i>-26</i>	<i>-4</i>
<i>wetlands Low rare plant potential subtotal</i>			<i>38,283</i>	<i>10</i>	<i>28,849</i>	<i>8</i>	<i>-25</i>	<i>-27</i>	<i>-4</i>	<i>-27</i>	<i>-3</i>	<i>-30</i>	<i>-7</i>	<i>-30</i>	<i>-7</i>
Miscellaneous Vegetation Types															
Sh	shrubland	high	1,700	<1	1,510	<1	-11	-11	<-1	-11	0	-11	<-1	151	182
BUu	burned upland	moderate	810	<1	2,223	1	174	54	-44	174	0	54	-44	54	-44
BUw	burned wetlands ^(a)	moderate	319	<1	2,589	1	712	116	-73	712	0	116	-73	116	-73
Me	meadow	moderate	574	<1	525	<1	-9	-9	0	-9	-1	-9	-1	-9	-1
Cb	cutbank	low	93	<1	92	<1	-1	-1	0	-1	0	-1	0	-1	0
<i>miscellaneous vegetation types High rare plant potential subtotal</i>			<i>1,700</i>	<i><1</i>	<i>1,510</i>	<i><1</i>	<i>-11</i>	<i>-11</i>	<i>0</i>	<i>-11</i>	<i>0</i>	<i>-11</i>	<i><-1</i>	<i>151</i>	<i>182</i>
<i>miscellaneous vegetation types Moderate rare plant potential subtotal</i>			<i>1,703</i>	<i><1</i>	<i>5,337</i>	<i>2</i>	<i>213</i>	<i>45</i>	<i>-54</i>	<i>213</i>	<i><-1</i>	<i>44</i>	<i>-54</i>	<i>44</i>	<i>-54</i>
<i>miscellaneous vegetation types Low rare plant potential subtotal</i>			<i>93</i>	<i><1</i>	<i>92</i>	<i><1</i>	<i>-1</i>	<i>-1</i>	<i>0</i>	<i>-1</i>	<i>0</i>	<i>-1</i>	<i>0</i>	<i>-1</i>	<i>0</i>
Non-Vegetation Types															
Lake	lake	low	4,771	1	4,363	1	-9	-10	-1	-10	-1	-11	-2	109	128
Littoral	littoral zone	low	0	0	0	0									
River	river	low	5,254	1	5,253	1	0	0	0	<-1	<-1	<-1	<-1	0	<-1
Sand	sand	low	129	<1	129	<1	0	0	0	-4	-4	-4	-4	-4	-4
<i>non-vegetation types Low rare plant potential 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>
Disturbances															
CC	cutblock	moderate	3,995	1	3,442	1	-14	-15	-1	-25	-13	-26	-15	-26	-15
DIS	disturbance	low	25,303	7	90,004	24	256	306	14	296	11	346	25	223	-9
<i>disturbances Moderate rare plant potential subtotal</i>			<i>3,995</i>	<i>1</i>	<i>3,442</i>	<i>1</i>	<i>-14</i>	<i>-15</i>	<i>-1</i>	<i>-25</i>	<i>-13</i>	<i>-26</i>	<i>-15</i>	<i>-26</i>	<i>-15</i>
<i>disturbances Low rare plant potential subtotal</i>			<i>25,303</i>	<i>7</i>	<i>90,004</i>	<i>24</i>	<i>256</i>	<i>306</i>	<i>14</i>	<i>296</i>	<i>11</i>	<i>346</i>	<i>25</i>	<i>223</i>	<i>-9</i>
Total Upland Phases with Moderate Rare Plant Potential			97,376	26	87,534	21	-10	-11	-1	-14	-5	-15	-6	-7	3
Total Upland Phases with Low Rare Plant Potential			102,893	26	80,941	19	-21	-22	-1	-23	-2	-24	-3	-11	14
Total Wetland Types with High Rare Plant Potential			92,469	24	67,829	18	-27	-34	-10	-30	-4	-37	-14	-37	-14
Total Wetland Types with Moderate Rare Plant Potential			5,667	1	4,348	1	-23	-24	-1	-25	-3	-26	-4	-26	-4
Total Wetland Types with Low Rare Plant Potential			38,283	10	28,849	8	-25	-27	-4	-27	-3	-30	-7	-30	-7

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

* Rare plant rankings estimated from Central Mixedwood phases

** Rare plant ranking estimated

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