

1.0 Overview

A draft regional plan was published for the Dawson region of the Yukon in June 2021 guided by the vision that "The future of the region will include a diverse economy, rich cultural legacy, healthy environment, with shared and respectful use of natural resources". The draft plan splits the region into 23 Landscape Management Units (one of which is split into two sub-units) which were assigned different levels of zoning: Integrated Stewardship Areas (level 1 – 4), Special Management Areas (designations 1 and 2), Highway Corridors, or Future Planning Areas. The draft plan makes key recommendations on various topics, one of which is wetlands, where it is recommended that wetlands of special importance are recognized and that developments should be limited in rare and sensitive wetland types.

Ducks Unlimited Canada has completed a wetland inventory of the Dawson region in March of 2021 for the Tr'ondëk Hwëch'in First Nation. The Dawson wetland mapping project identified the spatial extent of wetlands in the Dawson region and classified them based on the five major classes of the Canadian Wetland Classification System (CWCS; open water, marsh, fen, bog, swamp) using satellite imagery and collected field data. Remotely sensed imagery was acquired and processed, and included optical, radar, and topographic datasets. A supervised machine-learning (Random Forest) object-based approach was utilized to classify wetlands based on ground-verified field data (639 sites) and interpreted sites identified and labeled by knowledgeable professionals.

This report describes and displays the five major wetland class area in each land management unit of the Dawson Land Use Plan.

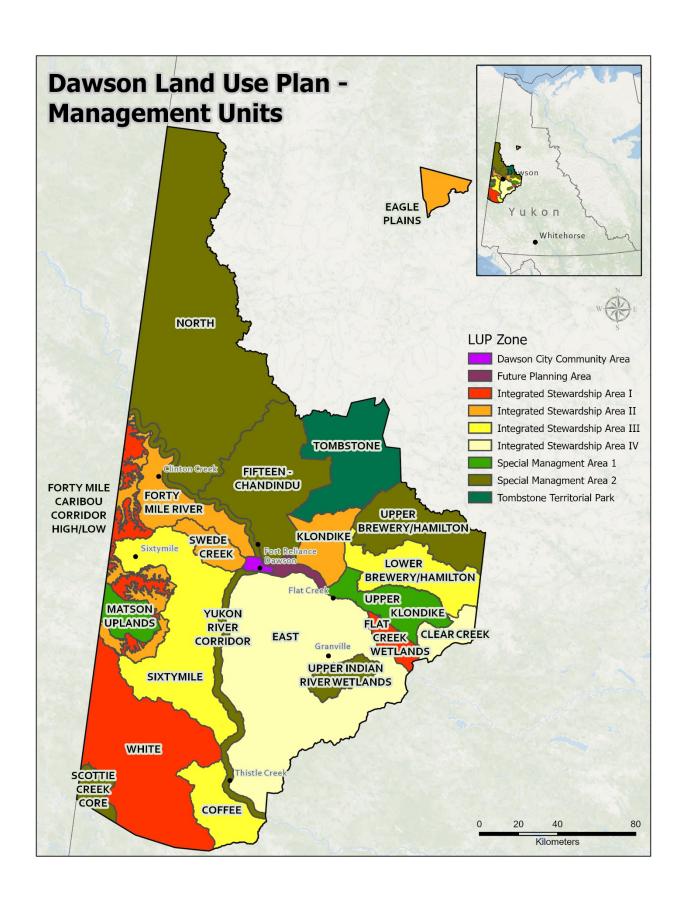


Table 1. Total area in hectares of wetlands in Dawson Land Use Plan. Wetland class information available in DUC report.

	Area (hectares)								
	Wetland Class						Upland	Other /	Total LMU
Land Management Unit	Open	Marsh	Fen	Bog	Swamp	Total		Unclassified	
	Water					Wetland			
North	2,522	97	53,316	6,440	42,085	104,460	567,569	121,991	794,020
Eagle Plains	105	0	3,338	188	1,165	4,796	153	27,942	32,891
Yukon River Corridor	21,570	15	6,743	113	15,839	44,279	39,046	9,224	92,549
Fifteen - Chandindu	905	0	6,814	348	14,911	22,977	194,893	58,192	276,062
Tombstone	1,971	2	25,790	80	8,309	36,153	168,969	4,933	210,055
Klondike	65	1	1,343	289	6,699	8,397	64,265	10,436	83,098
Upper Brewery/Hamilton	582	0	2,469	90	7,525	10,666	157,417	44	168,126
Lower Brewery - Hamilton	611	0	4,539	1,824	10,436	17,409	94,199	29,455	141,063
Clear Creek	106	0	258	146	988	1,497	31,070	14,724	47,292
Upper Klondike	542	19	6,159	1,795	10,295	18,810	64,421	15,161	98,392
Flat Creek Wetlands	309	48	4,448	865	3,772	9,442	20,642	6,693	36,777
East	3,925	52	12,507	779	26,671	43,934	341,289	275,390	660,613
Klondike Valley	454	0	1,061	83	3,540	5,138	13,449	1,257	19,844
Dawson City	609	0	67	10	506	1,192	5,418	1,529	8,139
Forty Mile River	306	0	889	132	2,709	4,037	72,817	34,947	111,801
Swede Creek	25	0	38	24	557	643	36,672	9,934	47,249
Sixtymile	690	2	7,704	975	17,717	27,089	222,201	91,021	340,311
Matson Uplands	20	0	534	213	872	1,639	51,330	218	53,188
Upper Indian River Wetlands	17	0	2,002	231	2,917	5,167	28,365	14,573	48,104
Coffee	60	0	588	63	2,234	2,945	60,453	36,593	99,991
White	10,007	87	19,384	736	28,014	58,228	224,115	129,596	411,939
Scottie Creek Core	215	81	5,430	13	4,386	10,125	25,125	154	35,404
Forty Mile Caribou Corridor - Low	288	0	2,645	271	4,205	7,408	49,900	27,492	84,801
Forty Mile Caribou Corridor - High	0	0	37	5	720	762	51,908	28,478	81,147
Total Dawson LUP	45,903	406	168,101	15,714	217,071	447,195	2,585,685	949,978	3,982,857

Table 2. Percent of each LMU per wetland class in the Dawson Land Use Plan. Wetland class information available in DUC report.

	Percent of Total LMU Area								
	Wetland Class						Upland	Other /	
Land Management Unit	Open Water	Marsh	Fen	Bog	Swamp	Total		Unclassified	
						Wetland			
North	0.3%	<0.1%	6.7%	0.8%	5.3%	13.2%	71.5%	15.4%	
Eagle Plains	0.3%	0%	10.1%	0.6%	3.5%	14.6%	0.5%	85.0%	
Yukon River Corridor	23.3%	<0.1%	7.3%	0.1%	17.1%	47.8%	42.2%	10.0%	
Fifteen - Chandindu	0.3%	<0.1%	2.5%	0.1%	5.4%	8.3%	70.6%	21.1%	
Tombstone	0.9%	<0.1%	12.3%	<0.1%	4.0%	17.2%	80.4%	2.3%	
Klondike	0.1%	<0.1%	1.6%	0.3%	8.1%	10.1%	77.3%	12.6%	
Upper Brewery/Hamilton	0.3%	0%	1.5%	0.1%	4.5%	6.3%	93.6%	0.0%	
Lower Brewery - Hamilton	0.4%	0%	3.2%	1.3%	7.4%	12.3%	66.8%	20.9%	
Clear Creek	0.2%	0%	0.5%	0.3%	2.1%	3.2%	65.7%	31.1%	
Upper Klondike	0.6%	<0.1%	6.3%	1.8%	10.5%	19.1%	65.5%	15.4%	
Flat Creek Wetlands	0.8%	0.1%	12.1%	2.4%	10.3%	25.7%	56.1%	18.2%	
East	0.6%	<0.1%	1.9%	0.1%	4.0%	6.7%	51.7%	41.7%	
Klondike Valley	2.3%	0%	5.3%	0.4%	17.8%	25.9%	67.8%	6.3%	
Dawson City	7.5%	0%	0.8%	0.1%	6.2%	14.7%	66.6%	18.8%	
Forty Mile River	0.3%	0%	0.8%	0.1%	2.4%	3.6%	65.1%	31.3%	
Swede Creek	0.1%	0%	0.1%	0.1%	1.2%	1.4%	77.6%	21.0%	
Sixtymile	0.2%	<0.1%	2.3%	0.3%	5.2%	8.0%	65.3%	26.7%	
Matson Uplands	<0.1%	0%	1.0%	0.4%	1.6%	3.1%	96.5%	0.4%	
Upper Indian River Wetlands	<0.1%	0%	4.2%	0.5%	6.1%	10.7%	59.0%	30.3%	
Coffee	0.1%	0%	0.6%	0.1%	2.2%	2.9%	60.5%	36.6%	
White	2.4%	<0.1%	4.7%	0.2%	6.8%	14.1%	54.4%	31.5%	
Scottie Creek Core	0.6%	0.2%	15.3%	<0.1%	12.4%	28.6%	71.0%	0.4%	
Forty Mile Caribou Corridor - Low	0.3%	0%	3.1%	0.3%	5.0%	8.7%	58.8%	32.4%	
Forty Mile Caribou Corridor - High	<0.1%	0%	<0.1%	<0.1%	0.9%	0.9%	64.0%	35.1%	
Total Dawson LUP	1.2%	<0.1%	4.2%	0.4%	5.5%	11.2%	64.9%	23.9%	

Table 3. Percent of each wetland class within each LMU in the Dawson Land Use Plan. Wetland class information available in DUC report.

	Percent of Total Wetlands in LMU							
	Wetland Class							
Land Management Unit	Open Water	Marsh	Fen	Bog	Swamp			
North	2.4%	0.1%	51.0%	6.2%	40.3%			
Eagle Plains	2.2%	0%	69.6%	3.9%	24.3%			
Yukon River Corridor	48.7%	<0.1%	15.2%	0.3%	35.8%			
Fifteen - Chandindu	3.9%	<0.1%	29.7%	1.5%	64.9%			
Tombstone	5.5%	<0.1%	71.3%	0.2%	23.0%			
Klondike	0.8%	<0.1%	16.0%	3.4%	79.8%			
Upper Brewery/Hamilton	5.5%	0%	23.1%	0.8%	70.6%			
Lower Brewery - Hamilton	3.5%	0%	26.1%	10.5%	59.9%			
Clear Creek	7.1%	0%	17.2%	9.7%	66.0%			
Upper Klondike	2.9%	0.1%	32.7%	9.5%	54.7%			
Flat Creek Wetlands	3.3%	0.5%	47.1%	9.2%	40.0%			
East	8.9%	0.1%	28.5%	1.8%	60.7%			
Klondike Valley	8.8%	0%	20.6%	1.6%	68.9%			
Dawson City	51.1%	0%	5.6%	0.9%	42.4%			
Forty Mile River	7.6%	0%	22.0%	3.3%	67.1%			
Swede Creek	3.8%	0%	5.9%	3.7%	86.6%			
Sixtymile	2.5%	<0.1%	28.4%	3.6%	65.4%			
Matson Uplands	1.2%	0%	32.6%	13.0%	53.2%			
Upper Indian River Wetlands	0.3%	0%	38.7%	4.5%	56.4%			
Coffee	2.0%	0%	20.0%	2.2%	75.9%			
White	17.2%	0.2%	33.3%	1.3%	48.1%			
Scottie Creek Core	2.1%	0.8%	53.6%	0.1%	43.3%			
Forty Mile Caribou Corridor - Low	3.9%	0%	35.7%	3.7%	56.8%			
Forty Mile Caribou Corridor - High	<0.1%	0%	4.8%	0.7%	94.5%			
Total Dawson LUP	10.3%	0.1%	37.6%	3.5%	48.5%			