	N concentra greater than	%Nc (i.e., Su	ata observed f hat given leve	for that date. It Is of biomass it al number of	s less than th experimental	e critical N co observations	ncentration	depending on wh [%Nc] (i.e., Defici s Deficit or Surplu	ether the t) or is		
	Argentina Deficit: 33, 5	- Bannock Surplus: 19	Russet	207	208	209	210	211			
	3	3	4	4	1	1 0 10 20 30	3 0 10 20 3	4	N Status Classification		
[1-g 00 1 N g] N%	·	213	214	215	216	-	0 10 20 3	0 10 20 30	DeficitSurplus		
	O 10 20 30 Argentina Deficit: 40, S	0 10 20 30 - Gem Rus: Surplus: 32	0 10 20 30 set	0 10 20 30 Biomass	0 10 20 30 [Mg ha ⁻¹]						
1	218	219	220	221	222	223	224	225			
g N 100 g ⁻¹]	226	227	228	229	230	231	232	233	N Status Classification Deficit		
2	234	235	0 10 20 30	0 10 20 30	0 10 20 30	0 10 20 30	0 10 20	0 10 20 30	 Surplus 		
(_	- Innovator		Biomass	[Mg ha ⁻¹]						
4	Deficit: 51, S	238	239	240	241	242	243	244			
%N [g N 100 g ⁻¹]	245	246	247	248	2 249	250	251	252	N Status Classification • Deficit		
4	4-	254	0 10 20 30	0 10 20 30	0 10 20 3	1 0 10 20 30	0 10 20	2 30 0 10 20 30	Surplus		
		- Markies F		Biomass	[Mg ha ⁻¹]						
4	Deficit: 20, S		257	258	259	260	261	262			
%N [g N 100 g ⁻¹]	263	0 10 20 3	4 00 10 20 3	00 10 20 3	00 10 20 3	300 10 20 3	3 800 10 20	30 0 10 20 30	N Status Classification Deficit Surplus		
2	0 10 20 3	0		Biomass	[Mg ha ⁻¹]						
(Argentina Deficit: 36, 5	- Umatilla F Surplus: 20	Russet	267	268	269	270	271			
[1-g 00 N g] N%	2 272	2 273	274	275	276	3 277	0 10 20 3	0 10 20 30	N Status Classification Deficit		
		1 0 10 20 30	0 10 20 30	1 0 10 20 30	0 10 20 30	0 10 20 30	-		 Surplus 		
	Belgium - Deficit: 40, S		3	Biomass	[Mg ha ⁻¹]	6	7	8			
6 4 2 0 6 4 2 0 6 4 2 0 6 4 2 0 6 4 2 0 6 4 2 0 6 4 2 0 6 4 2 0 6 4 2 0 6 4 2 0 6 4 2 0 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 4 2 0 6 6 6 4 2 0 6 6 6 4 2 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1-	1 11	12	13	14	1 15	1 16	18			
	1-	1 20	3 21	22	1 23	25	26	1 27			
	22 1 28	29	30	31	32	33	34	35	N Status		
	36	5 38	39	40	41	1 42	1 43	70	Classification Deficit Surplus		
	71	72	73	74	75	76	1 77	78			
	79	0 5 10	0 5 10	0 5 10	0 5 10	5 10	0 5 10	1			
4	1 0 5 10			Biomass	[Mg ha ⁻¹]						
l ₁ -g 001 N g	Belgium - Deficit: 16, S		47	48	49	50	51	52			
	53	54	1 55	56	57	58	60	61	N Status		
	62	63	64	1 65	66	5 67	1 68	5 69	Classification Deficit Surplus		
	4-2-	0 5 10	3 10 5 10	1 0 5 10	0 5 10	0 5 10	0 5 10	1 0 5 10			
	Deficit: 33, 5	Russet Burl Surplus: 71	oank	Blomass	[Mg ha ⁻¹]	191	192	280			
4 2 0 6 f ₁ - b (1 282	283	284	285	2 286	2 298	1 299			
	1-	3 301	302	303	304	305	1 318	1 319	N Status Classification		
	4-2-2-	321	2	3	2	2		2	Deficit		
4			322	323	324	325	1 0 5 10	1	DeficitSurplus		
	0 5 10	0 5 10	322	0 5 10	2 0 5 10	1	1	1			
6 4 2 0	Canada - S Deficit: 44, S	Shepody	2	0 5 10	1	325	1	1			
2	Canada - S Deficit: 44, S	Shepody Surplus: 61	0 5 10	2 0 5 10 Biomass	2 0 5 10 [Mg ha ⁻¹]	325	0 5 10	1 0 5 10			
- CD (Canada - S Deficit: 44, S	Shepody Surplus: 61	197	2 0 5 10 Biomass	2 0 5 10 [Mg ha ⁻¹]	1 325 1 0 5 10	201	202			
%N [g N 100 g ⁻¹]	Canada - 3 Deficit: 44, 5 195 289 289 2 309 2 1 330	Shepody Surplus: 61	197 3 1 291 3	198 3 198 292 2	2 0 5 10 [Mg ha ⁻¹]	1 325 1 200 2 294 2 294	201 2 295 1 315	202 2 308	 Surplus N Status Classification		
%N [g N 100 g ⁻¹]	Canada - 3 Deficit: 44, S 195 289 289 2 309 2 1 330 2 1	Shepody Surplus: 61 196 3 1 290 3 1 331 2	197 3 1 291 3 3 1 2 1 332 2	198 3 3 333 1 333	293 293 293 2 313 2 334	1 325 1 200 2 294 2 335 1 2 335	201 2 295 1 315 1 2 10	202 2 308 2 308 2 329 2 1	 Surplus N Status Classification Deficit 		
[1-g N 100 g N 100 g 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Canada - S Deficit: 44, S 195 289 289 2 309 2 1 330 2 1 Minnesota Deficit: 5, Su 112	Shepody Surplus: 61 1 290 3 1 310 2 1 331 2 4 - Clearwat 1310 1 - Clearwat 113	197 3 197 3 311 291 332 2 114	198 3 3 333 1 333 1 115 Biomass	293 293 2 313 2 334	1 325 1 200 2 294 2 335 1 2 335	201 2 295 1 315 1 118	202 2 308 2 308 2 1 15 0 5 10 15	 Surplus N Status Classification Deficit 		
[1-g N 100 g N 100 g 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Canada - S Deficit: 44, S 195 289 289 2 309 2 309 2 1 330 2 1 1 1 5 Minnesota Deficit: 5, Su	Shepody Surplus: 61 196 310 290 311 290 331 2 - Clearwaturplus: 25	197 3 1 291 3 311 2 5 0 5 10 15	2 0 5 10 Biomass 3 333 1 292 2 2 312 2 333 1 Biomass	293 293 293 2 313 2 334 1 [Mg ha ⁻¹]	200 2 294 2 294 2 335 1 2 3 3 3 5 1 1 1 5 5 0 5 10 1 5	201 2 295 1 315 1 0 5 10	202 2 308 2 308 2 1 1 5 0 5 10 15	 Surplus N Status Classification Deficit 		
%N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹]	Canada - 3 Deficit: 44, 5 195 289 289 2 309 2 1 330 2 1 330 2 1 120 3 1 120 3 1 120 3 1 120	Shepody Surplus: 61 1 290 3 1 310 2 - Clearwat urplus: 25 113 3 131 3 14 15 16 17 18 18 19 19 10 10 10 10 10 10 10 10	197 3 1 291 3 311 2 332 2 1 14 2	198 3 333 1 2 2 2 2 312 2 333 1 15 2 0 5 10 15 Biomass	293 293 2 293 2 313 2 334 1 [Mg ha ⁻¹]	200 2 294 2 294 2 335 1 117 3 117	201 2 295 1 315 1 118 3 3 15	202 2 308 2 308 2 1 1 1 1 1 5 0 5 10 15	 Surplus N Status Classification Deficit Surplus N Status Classification		
%N [g N 100 g ⁻¹]	Canada - S Deficit: 44, S 195 289 2 289 2 309 2 309 2 1 330 2 1 1 20 3 1 20 4 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	Shepody Surplus: 61 196 310 290 311 310 2	197 3 197 3 311 291 332 2 114 2 1 14 2	198 3 333 1 2 2 2 2 312 2 333 1 15 2 0 5 10 15 Biomass	20 5 10 [Mg ha ⁻¹] 199 2 293 2 313 2 116 2 116 2 116 2 117 116 2 117 117 118 119 119 119 119 119 119 119 119 119	200 2 294 2 294 2 335 1 117 3 117	201 2 295 1 315 1 118 3 3 15	202 2 308 2	 Surplus N Status Classification Deficit Surplus N Status Classification Deficit Deficit 		
[1-g N 100 g ⁻¹] %N [g N 100 g ⁻¹]	Canada - 3 Deficit: 44, 5 195 289 289 201 309 201 330 201 Minnesota Deficit: 5, St 112 34 120 34 142 34 142 34 35 142	Shepody Surplus: 61 196 310 290 311 290 311 290 311 290 311 331 211 113 331 211 113 331 211 113 331 211 1143 4143	197 311 291 332 2 144 4	2 0 5 10 Biomass 3 333 1 0 5 10 15 Biomass 145 3	20 5 10 [Mg ha ⁻¹] 199 2 293 2 313 2 334 1 [Mg ha ⁻¹] 116 2 146 4 1	1 325 1 200 2 294 2 294 2 314 1 117 3 335 1 117 3 335 1 147 4 4 1	201 2 295 1 3 315 1 118 3 0 5 10	202 2 308 2 308 2 1 1 1 1 1 5 0 5 10 15	 Surplus N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Classification 		
1^{-1} %N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹]	Canada - 3 Deficit: 44, 5 195 289 289 2 309 2 1 330 2 1 330 2 1 120 3 1 120 3 1 142 5 1 150 5 1 142	Shepody Surplus: 61 196 310 290 311 290 311 290 311 310 2 113 311 2 121 1 121	197 311 291 332 201 332 201 114 201 100 100 100 100 100 100 100	2 198 3 198 3 333 1 292 2 2 3 153 5 Biomass 1 145 3 5 10 15 3 5 10	20 5 10 [Mg ha ⁻¹] 199 2 293 2 313 2 334 1 [Mg ha ⁻¹] 116 2 146 4 154 4 1 154	1 325 1 200 2 294 2 294 2 314 1 117 3 335 1 117 3 117 4 1 155 5 5 10	201 2 295 1 3 315 1 118 3 0 5 10	202 202 2 308 1 329 2 15 0 5 10 15	 Surplus N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status		
$[l_{-}]^{-}$	Canada - 3 Deficit: 44, S 195 289 289 2 309 2 1 330 2 1 330 2 1 Minnesota Deficit: 5, Su 112 3 1 Minnesota Deficit: 8, Su 142 5 Minnesota Deficit: 13, S Minnesota Deficit: 13, S	Shepody Surplus: 61 196 310 290 3 1 1 290 3 10 2 10 1 290 3 10 2 10 1 10	197 311 291 332 2 144 4 2 152 5 0 5 10 15	198 312 292 292 2 312 333 1 153 5 10 15 Biomass Biomass Biomass Biomass	20 5 10 [Mg ha ⁻¹] 199 293 293 2 116 334 1 16 2 1 16 2 1 16 4 1 154 4 1 154 4 1 1 154 4 1 1 154 4 1 1 154 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 325 1 200 2 294 2 294 2 335 1 117 3 314 1 117 3 117 3 117 3 10 5 10 18	201 2 295 1 315 1 118 3 0 5 10	202 2 2 308 2 308 2 1 15 0 5 10 15	 Surplus N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit 		
[1-g N 100 g ⁻¹] %N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹]	Canada - 3 Deficit: 44, S 195 289 289 2 309 2 1 330 2 1 330 2 1 Minnesota Deficit: 5, Su 112 3 1 Minnesota Deficit: 8, Su 142 5 Minnesota Deficit: 13, S Minnesota Deficit: 13, S 156	Shepody Surplus: 61 196 310 290 3 1 1 290 3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	197 311 291 332 201 332 201 114 201 100 100 100 100 100 100 100	2 198 3 198	20 5 10 [Mg ha ⁻¹] 199 2 293 2 313 2 334 1 [Mg ha ⁻¹] 116 2 10 5 10 1	1 325 1 200 2 294 2 294 2 314 1 117 3 335 1 117 3 117 4 1 155 5 5 10	201 201 2 295 1 3 315 1 118 3 0 5 10	202 2 308 308 1 329 2 119 3 119 3 119 3 163 5 10 15	 Surplus N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit Deficit 		
0.001^{-1} %N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹]	Canada - Deficit: 44, S 195 289 289 2 309 2 1 330 2 1 Minnesota Deficit: 5, Su 112 3 150 5 10 Minnesota Deficit: 13, S Minnesota Deficit: 13, S 156 5 1 156	Shepody Surplus: 61 196 310 290 3 1 1 290 3 10 2 10 1 290 3 10 2 10 1 10	197 311 291 332 2 144 4 2 152 5 0 5 10 15	198 312 292 292 2 312 333 1 153 5 10 15 Biomass Biomass Biomass Biomass	20 5 10 [Mg ha ⁻¹] 199 2 293 2 313 2 334 1 [Mg ha ⁻¹] 116 2 10 5 10 1 [Mg ha ⁻¹] 146 4 1 154 4 1 154 1 160 3 160 3 160 3 160	1 325 1 200 2 294 2 294 2 335 1 177 3 314 1 177 4 1 177 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 2 295 1 315 1 118 3 315 0 5 10	202 2 308 308 1 329 2 119 3 119 3 119 3 163 5 10 15	N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Surplus		
%N [g N 100 g ⁻¹]	Canada - Deficit: 44, S Deficit: 44, S 195 289 2 309 2 1 330 2 1 Minnesota Deficit: 8, Su 142 5 1 Minnesota Deficit: 13, S Minnesota Deficit: 13, S Minnesota Deficit: 13, S Minnesota Deficit: 13, S	Shepody Surplus: 61 1 290 3 310 2 290 3 310 2 310 2 310 2 310 2 310 3 31 2 310 2 310 3 31 2 310 3 31 3 31	197 311 291 332 291 332 201 100 5 10 15	198 312 292 292 2 312 333 1 153 5 10 15 Biomass Biomass Biomass Biomass	20 5 10 [Mg ha ⁻¹] 199 2 293 2 313 2 334 1 [Mg ha ⁻¹] 116 2 10 5 10 1 [Mg ha ⁻¹] 146 4 1 154 4 1 160 3 160 3 160 3 160	1 325 1 200 2 294 2 294 2 335 1 117 3 335 1 147 4 147 4 1 155 5 0 5 10 18	201 201 2 295 1 118 3 315 1 10 2 295 1 10 2 3 10 3 162 3 162 3 1 10	202 2 308 3 308 2 329 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Deficit Deficit Deficit Deficit		
%N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹]	Canada - Deficit: 44, S 195 289 289 2 309 2 10 330 2 112 330 4 120 3 120 3 142 5 150 5 10 15 Minnesota Deficit: 8, Su 142 5 150 5 10 15 Minnesota Deficit: 13, S Minnesota Deficit: 13, S 156 5 1 156 5 1 156 5 1 156	Shepody Surplus: 61 1 290 3 310 2 290 3 310 2 310 2 310 2 310 2 310 3 31 2 310 2 310 3 31 2 310 3 31 3 31	197 311 291 332 291 332 201 100 5 10 15	198 312 292 292 2 312 333 1 153 5 10 15 Biomass Biomass Biomass Biomass	20 5 10 [Mg ha ⁻¹] 199 2 293 2 293 2 313 2 166 4 1 166 4 1 154 4 4 1 160 3 160 3 160 3 160 3 160 3 160 3	1 325 1 200 2 294 2 294 2 335 1 117 3 335 1 147 4 147 4 1 155 5 0 5 10 18	201 201 2 295 1 118 3 315 1 10 2 295 1 10 2 3 10 3 162 3 162 3 1 10	202 2 308 3 308 2 329 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Deficit Deficit Deficit Deficit		
[1-g N 100 g ⁻¹] %N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹]	Canada - 3 Deficit: 44, 8 195 289 2 309 2 1 330 2 1 330 2 1 4 2 4 3 Minnesota Deficit: 8, Su 142 3 1 Minnesota Deficit: 13, S Minnesota Deficit: 72, S 82 9 1 156 156 156 156 156 157 Minnesota Deficit: 72, S 82 9 1 158 158 158 158 158 158 158 1	Shepody Surplus: 61 196 310 290 3 310 2 310 2 310 310 2 310 310 310 4 310 5 10 15 5 10 15 6 10 15 6 10 15 6 10 15 7 10 15 6 10 15 7 10 15 7 10 15 7 10 15 7 10 15 8 10 15 10 10 10 10 10 10 10 10 10	197 311 291 332 291 332 200 5 10 15 er 114 201 152 158 4 166 5 158 4 166 5 158 4 166 5 100 158 158 166 166 166 166 166 166	2 198 3 198 3 198 3 333 1 2 2 2 3 153	293 293 293 293 2 293 2 313 2 314 1 16 2 168 4 1 168 4 1 168 1 160 3 160 3 160 3 160 3 160 3 160 3 160 3 160 3 160 3 160 1 160 3 160 1 160 3 160 1 160	325 1 325 1 200 2 294 2 294 2 335 1 177 3 335 1 177 3 335 1 161 2 3 169 5 0 5 10 15 20	201 2 295 1 3 315 1 18 3 3 15 0 5 10 15 3	202 2 2 2 3 308 3 308 2 3 308 3 308 308 308 308 308 308 308 308 308 308	N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Deficit Deficit Deficit Deficit		
%N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹]	Canada - S Deficit: 44, 5 195 289 289 2 309 2 309 2 309 2 120 3 309 2 120 3 309 2 120 3 12	Shepody Surplus: 61 1 290 3 31 2 90 3 31 2 10 2 10 3 10 2 113 3 10 2 113 3 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	197 311 291 332 291 332 200 5 10 15 er 114 2 152 5 0 5 10 15 0 5 10 15 0 5 10 15	2 312 2 312 2 312 2 312 2 313 333 1	293 293 2 293 2 29	325 1 325 1 0 5 10 2 200 2 294 2 294 2 294 2 335 1 117 3 335 1 155 5 0 5 10 15 6 97 97 97	201 2 295 1 295 1 18 3 315 1 18 3 3 15 1 18 3 0 5 10	202 202 2 308 308 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Deficit Deficit Deficit Deficit		
%N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹] %N [g N 100 g ⁻¹]	Canada - Deficit: 44, S 195 289 289 201 309 201 Minnesota Deficit: 8, St 112 301 Minnesota Deficit: 13, S Minnesota Deficit: 72, S	Shepody Surplus: 61 196 310 290 311 310 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 290 331 331 290 331 331 331 34 351 362 363 363 363 363 363 363 363	197 311 291 311 291 332 200 5 10 15 er 152 5 0 5 10 15 0 5 10 15 0 5 10 15	2 198 3 198	293 293 293 293 293 293 293 293 293 293	325 1 325 1 0 5 10 2 200 2 294 2 2 3 314 1 117 3 3 35 1 117 3 3 35 1 105 5 0 5 10 18 1 161 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	201 2 295 1 295 1 315 1 18 3 315 1 18 3 3 10 0 5 10	202 202 2 308 2 308 2 329 2 1 1 19 3 329 2 1 19 3 19 3 10 15 20	N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Surplus N Status Classification Deficit Deficit Deficit Deficit Deficit		
%N [g N 100 g ⁻¹] %N [g N 100 g	Canada - 3 Deficit: 44, 5 195 289 289 2 309 2 1 309 2 1 309 2 1 Minnesota Deficit: 8, St 112 3 1 Minnesota Deficit: 13, S Minnesota Deficit: 72, S	Shepody Surplus: 61 196 310 290 311 310 290 3	197 311 291 332 291 332 200 5 10 15 er 1144 4 144 4 158 4 102 7 103 104 105 106 107 107 108 108 109 109 109 109 109 109	2 198 3 198	2 199 2 293	1 325 1 200 2 294 2 314 1 147 4 147 4 1 17 3 335 1 161 2 3 169 5 0 5 10 18 1 161 2 3 169 5 0 5 10 15 20	1 201 2 295 1 315 1 118 3 3 15 1 106 7 106 7 106 7 170 4 170 4 170	202 202 202 2 308 308 1 19 3 308 1 19 3 308 1 107 1 107 7 7 107 7 7 107 7 7 107 7 7 107 7 7 107	N Status Classification Deficit Surplus		
[1-g N 100 g ⁻¹] %N [g N 100 g	Canada - S Deficit: 44, 5 195 289 289 2 1 309 2 1 309 2 1 309 2 1 309 2 1 309 3 120 3 120 3 120 3 120 3 120 3 142 3 150 5 10 15 Minnesota Deficit: 8, Su 142 3 156 3 164 5	Shepody Surplus: 61 196 3 290 3 - Clearwat 121 121 1	197 311 291 311 291 332 291 332 201 301 102 7 102 7 102 7 102 7 102 7 102 7 102 7	198 3 198 3 198 3 333 1 2 2 2 312 2 2 312 2 333 1 153 5 Biomass Biomass Biomass 167 4 167 4 103 7 103 7 103 7 103 7 103 103 103 103 103 104 105 105 105 105 105 105 105 105	1 199 2 2 3 313 2 334 1 10 5 10 1 160 3 160 3 176 3 100 1 104 7 10	1 325 1 200 2 294 2 294 2 335 1 117 3 335 1 117 3 3 35 1 105 5 0 5 10 18 1 105 5 0 5 10 18	1 201 2 295 1 315 1 18 3 315 1 18 3 3 315 1 18 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	202 202 2 308 308 2 329 2 119 3 329 2 149 5 10 15 163 5 10 15 107 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	N Status Classification Deficit Surplus		
[1-g N 100 g ⁻¹] %N [g N 100 g	Canada - 3 Deficit: 44, 5 195 195 195 195 195 195 195 195 195 19	Shepody Surplus: 61 Shepody Surplus: 61 196 310 290 311 310 2	197 3 197 3 11 291 3 332 2 144 4 144 4 1 100 5 10 15 158 4 144 4 1 100 1 100 7 100 1 100 7 100 1 100 7 100 1 1	198 312 292 2 312 2 312 2 313 3 33 1 115 2 153 5 Biomass Biomass Biomass 145 3 167 4 1	2 10 5 10 [Mg ha ⁻¹] 199 2 2 3 313 2 334 1 166 2 168 4 168 4 168 4 1 104 7 1	1 325 1 200 2 200 2 294 2 294 2 314 1 177 3 335 1 105 5 0 5 10 18 169 5 0 5 10 18	1 201 2 295 1 315 1 18 3 315 1 18 3 3 315 1 18 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	202 202 2 308 308 2 329 2 119 3 329 2 149 5 10 15 163 5 10 15 107 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	N Status Classification Deficit Surplus		
%N [g N 100 g ⁻¹] %N [g N 100 g	Canada - Deficit: 44, S Deficit: 44, S 195 289 289 2 1 309 2 1 Minnesota Deficit: 5, Su Deficit: 8, Su 112 3 150 5 10 15 Minnesota Deficit: 72, S Minnesota Deficit: 3, Su Minnesota Deficit: 72, S Minnesota Deficit: 3, Su Minnesota Deficit: 44, Su Minnesota Deficit: 44, Su Minnesota Deficit: 44, Su Minnesota Deficit: 5, Su Minnesota Deficit: 44, Su Minnesota Deficit: 5, Su Minnesota Deficit: 6, Su Minnesota Deficit: 6, Su Minnesota Deficit: 72, Su Minnesota Deficit: 74, Su Minnes	Shepody Surplus: 61 196 310 290 311 310 2 10 1 290 3 331 2 113 3 12 1 13 3 1 2 1 151 5 0 5 10 15 20 1 165 4 143 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	197 3 197 3 11 291 311 291 331 291 332 291 3332 291 311 201 158 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	198 312 292 2 312 2 333 115 3 333 1 153 5 10 15 8 Biomass Biomass 167 4 167 4 167 8	2 293 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 325 1 200 2 294 2 294 2 294 2 335 1 117 3 314 1 147 4 147 4 147 4 147 4 169 5 0 5 10 15 20 0 5 10 15 20	201 2 295 1 315 1 18 3 315 1 18 3 98 3 1 170 4 170 1 1	1 0 5 10 15	N Status Classification Deficit Surplus		
%N [g N 100 g ⁻¹] %N [g N 100 g	Canada - Deficit: 44, S Deficit: 44, S 195 289 289 2 309 2 1 309 2 1 120 3 30 Minnesota Deficit: 5, St Deficit: 13, S Minnesota Deficit: 72, S Minnesota Deficit: 72, S Minnesota Deficit: 72, S Minnesota Deficit: 72, S Minnesota Deficit: 3, St 164 108 Minnesota Deficit: 3, St 100 Minnesota Deficit: 44, St 100 Minnesota Deficit: 5, St 100 Minnesota Deficit: 5, St 100 Minnesota Deficit: 6, St 100 Minnesota Deficit: 6, St 100 Minnesota Deficit: 72, St Minnesota Deficit: 74, St Minnesota Deficit: 74, St Minneso	Shepody Surplus: 61 196 310 290 3 310 290 3 310 2 310 2 310 2 310 3 311 2 310 3 311 4 310 5 0 5 10 15 6 10 15 7 10 15 7 10 15 8 10 15 9 10 15 10 10 10 10 10 10 10 10	197 311 291 311 291 311 291 332 291 332 201 301 152 501 152 505 1015 201 301 302 303 303 304 305 305 305 305 306 307 307 308 308 309 309 309 309 309 309 309 309	2 198 3 3 198 3 333 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 10 5 10 1 1 104	325 1 325 1 200 2 294 2 294 2 314 1 177 3 35 1 105 5 0 5 10 15 20 1 105 5 0 5 10 15 20	201 201 2 295 1 315 1 18 3 18 3 98 3 106 7 106 7 106 7 106 7 106 7 107 1 178 6 178 7	202 202 202 2 308 308 1 19 3 329 2 149 5 10 15 20 1 171 4 179 4 179	N Status Classification Deficit Surplus		
% [g N 100 g ⁻¹]	Canada - Deficit: 44, S Deficit: 44, S 195 289 2	Shepody Surplus: 61 1 290 3 31 2 331 2 331 2 10 5 10 15 6 2 10 15 6 2 10 15 6 3 10 15 6 3 10 15 7 1 10 15 8 1 10 15 8 1 10 15 8 1 10 15 8 1 10 15 9 1	2 10 5 10 15	2 198 3 3 198 3 333 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 199 2 2 3 3 1 3 3 2 2 3 3 3 4 1 1 1 1 6 2 2 3 3 1 3 0 3 3 4 1 1 1 1 6 2 2 3 1 6 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	325 1 325 1 200 2 294 2 294 2 314 1 177 3 35 1 105 5 0 5 10 15 20 1 105 5 0 5 10 15 20	201 201 2 295 1 315 1 18 3 18 3 98 3 106 7 106 7 106 7 106 7 106 7 107 1 178 6 178 7	202 202 202 2 308 308 2 119 3 329 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N Status Classification Deficit Surplus		