Widlife Workshop

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J.D. IRVING, LIMITED

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Rachel

UNBF February 18th, 2017

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Suborder SALAMANDROIDEA Sarasin, 1890

Key to the families of Salamandroidea

and a second	
1a) Adults with gills	
1b) Adults without gills	
2a) Adults with four toes on hind foot	
2b) Adults with five toes on hind foot	
3a) Adults with gill slit(s), limbs reduced	
3b) Adults may or may not have gill slits, limbs not reduced	
4a) Parasphenoid teeth (see Figure 1) present	
4b) Parasphenoid teeth absent	

Using Field Guide Keys

Figure 1. Presence (a & b) and absence (c) of parasphenoid teeth.

5a) Nasolabial grooves (see Figure 2) present; costal grooves well developed.
 Plethodontidae (page 11)
 5b) Nasolabial grooves absent; costal grooves may or may not be well developed
 Salamandridae (page 20)





Figure 2. Nasolabial groove and costal groove

6a) Costal grooves indistinct: dorsum brown with	black markings
ou) costal grootes mension, contained	Dicamptodontidae (page 10)
6b) Costal grooves distinct dorsum not brown wit	h black markings
	Ambystomatidae (in part)(page 8)

"When we try to pick out anything by itself, we find it hitched to everything else in the Universe."





Site Specific Examples for Best Marks

Competition / Niche

An **ecological niche** is the role and position a species has in its environment; how it meets its needs for food and shelter, how it survives, and how it reproduces.







Habitat Generalists vs Specialists

ent Stage		Forest Ecosystem															 Special Habi 	-Value tats	Preferred Habitat Features											
evelopme		As	per	n-Bi	rch	ł	No Har	rthe dwo	ern ods	3	Oak-Pine						, mlo	ck	ę	Spru	1ce.	-Fir		N. V Ceo	Wh	ite	Riparian and Wetland	Vernal Pool	Extensive Forest	Snags, Cavity Trees, or Deadwood
۵	Species and Region ¹	R	S	1	Μ	R	S	1	М	L	R	S	1	М	L	1	М	L	R	S	1	М	L	1	Μ	L		-		
c	Snowshoe Hare	Mx	Mx	Mx	Mx	MX	MAX	Mx	Mx	Mx	Mx	Mx	Mx	Mx	Mx	U	U	U			U	U	U	U	U	U	Mx, U	11	MA .	Ŋ
y sio	Ruffed Grouse																1817. 1			31			ų. D					11	11 .	11
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	White-tailed Deer (N)																											11	11	N
	Northern Goshawk																			4								H	X	Ħ
é	Pileated Woodpecker	11	4	11		4	4				\$	"							4	14			3a.			- 11. 12.		H	11	Х
atul	Black-backed Woodpecker (N)	14	1	4	4	14	4	\$	11	1	4	4	12	4	11	*	\$	4	3	11			1.1					11	?	X
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·	Wood Thrush (S)	14				14					11								11	1	"	4	1+	×	4	"		Ir	X	#
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a pu	Northern Waterthrush	11	11	1,	*	*	*	5	#1	"	1,	1,	11	"	"	11	"	"	"	"	11	N	"					11	X	11
aria etla	Wood Turtle	11				14					*								4									14	X	11
Rip.	Northern Dusky Salamander	4	11	1	4	*	2	10	*	4	11	11	*	"	11	4	4	"	4	24	**	#	11	11	11	"		11	11	11
_	Brook Trout	4	1	1	1	4	1	10	1	1,	4	11	11	14	11	4	14	84	14	4	28	11	14	11	*	23		11	11	81
Ь	Wood Frog	112														μi,			1111				Ечі,						11	38
>	Spotted Salamander	*	11			\$	4				1	3							10	3									11	31

Development Stage

- R Regeneration
- S Saplings and Small Poles
- I Intermediate-aged Forest
- M Mature
- L Late Successional

Habitat Modifers

U

?

- Mx Mixed deciduous-conifer
- WP White pine required
 - Understory present
 - More research needed

Habitat Use and Region

- Focus species for this habitat type
- Utilizes these habitats
- Low frequency use or absent from this habitat



















Carrying Capacity: # of animals a habitat can support over time. Not a constant over time.





Carrying Capacity

Wildlife Management

Deer Wintering Areas (DWA's)





Ideal DWA's

 Sp/bF mix with some cedar & hardwood (15+cm trees,11+m tall)

Min of 50-70% crown closure

Forest Succession



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Habitat Inventory – Chipman District





Maximizing Interior







Figure 7. The shape edge and forest-interi square patches have long narrow-shaped patches.





Establishing or Maintaining Vernal Pools







Habitat Elements





Figure 3. Pre-construction of boulder cluster habitat enhancement structures at the McIntosh Brook site, Little Main Restigouche River



Figure 4: Post-construction of boulder cluster habitat enhancement structures at the McIntosh Brook site, Little Main Restigouche River



Wildlife Mgmt Feedback Loop - Monitoring







NEW BRUNSWICK FURBEARER HARVEST REPORT 2013-2014







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Who are we? Northeastern Deer Research Study Partners



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What are we studying?

Research Objectives:

- 1. Seek a better understanding of the impact of intensive forest management on deer browse availability at a spatial and temporal scale relevant to deer populations (winter, summer range).
- 2. Seek a better understanding of the suitability of designated deer wintering areas to provide the required winter cover and food supply needed in various winter conditions (mild to severe winters).
- 3. Seek a better understanding of <u>deer landscape use patterns</u> in summer and various winter conditions (mild to severe winters).
- 4. Further develop and <u>utilize latest technologies</u> to survey deer populations and track deer movements (remote sensing, deer tracking / collaring technologies).
- 5. Further develop and utilize latest technologies to characterize deer food and winter cover conditions (GIS, Lidar enhanced forest inventory).
- 6. Develop and implement management strategies to improve deer food and winter cover availability where needed. 29