

Table S5. Repeated gene type detections across space and time in ducks of the Atlantic flyway over 2006-2011.

Segment	Gene type	Detection year/location^a	Duration (years)
PB2	C-2.1	2009/NL, 2010/NL	2
	C-2.2	2008/NL, 2009/NB, 2011/NL	3
	C-2.4	2009/NL, 2010/NL	2
	C-2.5	2010/NL, 2011/NL	2
	C-2.6	2006/QC, 2006/NB, 2006/NB, 2007/NB	2
	C-2.7	2006/QC, 2006/MD, 2006/NB, 2007/MD, 2007/NB	2
	C-2.8	2007/MD, 2007/NB, 2009/NB	3
	C-2.10	2006/NB, 2007/NL	2
	C-3.2	2006/QC, 2007/ON	2
	C-3.3	2006/QC, 2007/FL	2
	C-3.5	2009/PEI, 2009/NS, 2009/QC	1
	C-4.1	2007/NB, 2007/PEI	1
	PB1	F-1.1	2010/NL, 2010/NL, 2011/NL
F-3.1		2009/NL, 2010/NL	2
F-3.2		2006/PEI, 2007/NL, 2008/NL	3
F-3.5		2006/NB, 2007/NB	2
F-3.6		2007/PEI, 2009/PEI	3
F-3.8		2006/QC, 2007/FL	2
F-3.12		2009/PEI, 2009/NB	1
F-4.5		2007/NB, 2009/NS, 2009/NB	3
F-5.1		2006/NB, 2006/NY, 2006/MD, 2007/MD	2
F-8.1		2009/QC, 2009/NB	1
PA		E-1.1	2009/NL, 2010/NL
	E-1.5	2006/NY, 2006/PA	1
	E-2.1	2008/NL, 2009/PEI, 2009/NS, 2009/NB, 2011/NL	4
	E-3.1	2006/QC, 2006/PEI	1
	E-5.1	2006/QC, 2006/NY, 2006/NB	1
	H-1.1	2006/PEI, 2008/NL	3
	H-1.5	2010/NL, 2011/NL	2
	H-1.15	2009/PEI, 2009/NB	1
	H-1.17	2007/NB, 2009/NB, 2009/PEI	3
	E-4.1	2006/NB, 2007/NB	2
	NP	H-1.1	2009/PEI, 2009/NB, 2010/NL
H-1.2		2006/QC, 2006/PEI, 2008/NL	3
H-1.5		2006/QC, 2006/NB, 2007/NB	2
H-1.8		2006/NB, 2007/NB	2
H-2.1		2010/NL, 2011/NL	2
H-2.3		2006/QC, 2007/NL	2
H-2.4		2006/MD, 2007/NB	2
H-4.3		2006/PEI, 2006/NY	1
H-4.4		2006/NY, 2006/PA	1

	H-4.6	2009/PEI, 2009/NS, 2009/NB	1
	H-6.1	2006/NB, 2007/FL	2
	H-6.2	2006/QC, 2006/NB	1
M	E-1.1	2009/NL, 2010/NL	2
	E-1.3	2006/QC, 2006/MD, 2006/NB, 2006/NY, 2006/PA, 2008/NL, 2009/PEI	4
	E-1.5	2006/NY, 2007/MD, 2007/NB, 2009/NB, 2010/NL	5
	E-1.6	2010/NL, 2011/NL	2
	E-1.7	2009/NL, 2011/NL	3
	E-1.8	2006/NB, 2007/NB, 2007/PEI	2
	E-1.10	2006/NB, 2007/NB	2
	E-1.16	2006/DE, 2007/ON, 2007/FL	2
	E-1.18	2007/NB, 2009/PEI	3
	E-1.19	2009/PEI, 2009/NS, 2009/NB	1
	J-1.1	2009/QC, 2009/NB	1
NS	1D-1.1	2006/NY, 2007/NL, 2008/NL	3
	1D-1.5	2009/NL, 2010/NL	2
	1D-1.6	2006/PEI, 2007/NB, 2007/PEI	2
	1D-1.7	2006/QC, 2006/NB, 2007/FL, 2007/ON, 2009/PEI	4
	1D-1.9	2006/QC, 2006/PA, 2007/NB	2
	1D-1.10	2006/QC, 2006/MD, 2006/DE	1
	1D-1.13	2009/PEI, 2009/NS, 2009/NB	1
	1C-1.1	2009/QC, 2009/NB	1
	2B-1.6	2006/NB, 2006/PEI, 2007/NB	2
HA	3C-1.2	2006/QC, 2006/NB, 2006/PEI, 2007/NB	2
	3C-2.3	2007/NB, 2009/PEI	3
	3D-1.1	2007/NL, 2008/NL, 2010/NL	4
	3D-1.2	2009/PEI, 2009/NS, 2009/NS	1
	3D-2.1	2007/NB, 2009/PEI	3
	4A-1.4	2006/QC, 2006/NB	1
	4A-1.5	2006/PEI, 2007/NB, 2007/PEI	2
	5C-1.2	2006/MD, 2007/MD, 2007/FL	2
	5C-1.3	2006/NY, 2006/PA	1
NA	2D-1.1	2006/MD, 2007/NL, 2009/NB, 2011/NL	6
	2D-1.3	2006/NY, 2006/PA, 2006/DE	1
	6A-1.1	2006/NB, 2008/NL	3
	6A-1.2	2006/PEI, 2009/NB	4
	6A-3.2	2009/PEI, 2010/NL	2
	6A-4.2	2006/QC, 2007/NB	2
	8A-2.1	2008/NL, 2009/NS, 2009/NB	2
	8A-2.2	2007/NB, 2009/PEI, 2009/NB	3

^a NL, Newfoundland; QC, Quebec; MD, Maryland; NB, New Brunswick; PEI, Prince Edward Island; NY, New York; PA, Pennsylvania; DE, Delaware; ON, Ontario; FL, Florida; NS, Nova Scotia