

On-line Appendix A. MICROSATELLITE AND MITOCHONDRIAL DNA DIFFERENTIATION IN THE FOX SPARROW, ROBERT M. ZINK, Condor, 2008.

Individual lab number, alleles present at microsatellite loci Mme1, 2, 8, 10, and 11. Numbers refer to size of the repeat unit. For example, individual al143 from High Level, Alberta, is a 26/26 homozygote at Mme 1, 17/17 homozygote at Mme 2, 51/60 heterozygote at Mme 8, 32/32 homozygote at Mme 10 and 76/76 homozygote at Mme 11. A “?” means the allelic state could not be resolved.

High Level

al143	26	17	51	32	76
	26	17	60	32	76
al144	26	17	51	33	71
	26	18	51	38	76
al145	27	17	51	36	71
	27	17	54	37	76
183al	26	17	54	33	76
	27	18	54	34	76
184al	25	17	51	33	71
	25	17	51	33	71
185al	26	17	51	33	71
	26	18	54	33	71
206al	26	17	54	33	71
	27	18	54	33	71
207al	28	18	57	?	71
	28	18	58	35	71
Dease Lake					
bc146	25	17	54	43	76
	26	18	54	45	76
318bc	29	17	51	33	76
	9	18	54	33	76
320bc	28	17	51	35	71
	28	17	60	35	76
321bc	26	17	60	35	71
	28	18	60	35	71
317bc	26	18	58	33	76
	26	18	?	33	76
319bc	?	17	51	35	71
	?	17	54	35	76
Georges Gorge					
yu147	26	17	51	33	71
	?	18	51	35	76
209yu	26	17	51	33	71
	26	17	54	36	76
yu148	25	16	51	34	71
	25	17	51	35	71
yu149	27	17	58	34	76
	27	18	60	34	76
186yu	26	17	54	34	71
	26	17	57	35	71
188yu	25	17	51	32	71
	26	17	54	35	71
211yu	26	17	54	33	76
	26	17	58	37	76
Pelly Crossing					
yu153	26	17	61	33	71
	26	18	?	34	71

154yu	27	18	51	34	76
	27	18	54	?	76
yu150	25	17	54	33	71
	25	18	60	33	76
yu151	25	18	51	31	71
	25	19	60	34	71
yu152	26	17	51	34	71
	27	18	51	34	76
189yu	27	17	51	33	76
	27	18	54	35	76
190yu	25	17	51	33	76
	25	18	60	35	76
155yu	26	17	51	33	71
	27	18	60	33	71
158yu	25	17	51	33	71
	27	17	60	33	76
191yu	26	17	51	33	71
	28	17	54	34	71
Lake Louise					
aks167	27	17	51	35	76
	27	17	51	35	76
aks168	26	17	51	36	76
	27	18	54	46	76
259akn	?	17	51	33	76
	29	17	54	33	76
Livengood					
akn160	26	17	51	35	71
	26	17	54	35	?
akn159	26	17	51	33	71
	27	18	51	37	76
193akn	26	18	54	35	76
	27	18	54	35	76
194akn	25	17	51	35	76
	27	17	54	49	76
195akn	26	17	51	44	71
	26	17	54	48	71
212akn	26	17	51	31	71
	26	17	57	35	71
Cantwell					
akn161	26	17	51	35	71
	26	17	54	46	71
196akn	26	17	54	33	71
	27	18	60	33	71
197aln	27	17	51	34	71
	27	19	54	36	71
198akn	25	17	54	35	76
	26	17	57	35	76
Newfoundland					
136nf	25	13	54	41	?
	26	17	54	41	?
130nf	26	17	54	35	71
	26	17	54	36	71
131nf	26	17	51	34	76
	26	17	51	34	76
132nf	25	17	51	35	71
	25	17	54	35	71

133nf	26	17	51	33	71
	26	17	54	33	76
134nf	25	17	54	32	71
	25	17	54	36	71
135nf	26	17	54	31	71
	28	18	54	31	76
177nf	25	17	51	35	71
	25	17	51	35	71
178nf	29	16	51	33	71
	29	18	54	33	71
179nf	26	17	54	33	76
	28	17	54	33	76
Minnesota					
488mn	26	17	60	35	76
	27	18	60	48	76
489mn	26	17	54	33	71
	28	17	60	33	71
Pennsylvania					
27pa	26	17	51	33	76
	27	18	54	35	76
328pa	25	17	51	35	71
	26	18	51	38	76
Cadomin					
al140	26	15	51	33	71
	26	17	54	33	76
al141	25	17	54	35	76
	25	17	54	35	76
181al	25	15	51	33	71
	25	18	60	34	71
182al	27	15	51	32	71
	27	17	60	35	71
Valemount					
bc5	27	17	51	33	71
	27	18	51	33	76
314bc	26	15	51	32	71
	26	17	60	35	71
315bc	25	17	57	33	71
	26	17	60	33	71
316bc	26	15	60	34	71
	27	15	60	34	76
Pine Pass					
309pin	26	16	54	33	71
	27	18	60	34	76
310pin	26	15	51	33	71
	26	17	51	36	71
312pin	25	15	60	33	76
	26	17	60	33	76
313pin	25	15	54	33	71
	27	18	60	37	76
299pp	26	15	51	35	71
	26	15	60	36	76
307pin	26	15	57	33	76
	27	18	60	33	76
308pin	25	15	51	33	71
	26	17	51	44	71
Smithers					

295sm	26	15	51	33	71
	26	17	60	35	71
296sm	27	15	60	33	71
	27	17	60	35	71
297sm	27	15	60	33	71
	27	?	60	35	76
298sm	26	17	51	33	71
	27	?	60	33	71
Perkins Peak					
300pp	25	15	51	33	71
	27	17	60	42	76
301pp	25	15	51	33	71
	28	17	60	33	71
302pp	26	15	60	35	71
	27	18	60	37	71
303pp	25	15	51	35	71
	26	17	60	41	76
304pp	25	15	?	33	71
	27	17	60	33	71
305pp	26	15	54	33	71
	27	15	60	42	71
306pp	27	15	51	33	71
	27	15	60	35	71
Ruby Mountains					
484lc	25	17	51	35	?
	25	17	60	44	?
585elk	26	15	51	36	71
	26	17	51	36	76
586elk	25	17	51	32	76
	25	17	60	33	76
587elk	25	17	54	34	71
	26	17	60	36	76
588elk	25	15	60	33	71
	25	17	60	36	71
589elk	26	15	51	35	76
	26	17	60	35	76
590elk	25	17	51	33	71
	25	17	60	33	71
592elk	25	17	51	36	71
	26	17	54	36	76
593elk	25	15	51	34	76
	25	17	54	34	76
594elk	26	17	51	32	71
	26	17	51	41	71
595elk	25	17	51	35	71
	26	17	51	35	71
596elk	26	17	51	33	71
	26	18	60	33	71
597elk	26	18	60	35	76
	26	18	60	35	76
Santa Rosa Mountains					
230mrt	26	15	51	33	71
	26	17	51	33	71
231mrt	26	15	51	33	71
	26	18	51	35	71
232mrt	26	17	51	35	76

	26	18	60	35	76
245mrt	26	18	60	34	76
	26	18	60	34	76
246mrt	25	15	51	35	71
	26	17	54	35	71
247r	25	18	60	33	71
	26	18	60	35	76
485sr	25	17	60	34	71
	27	18	60	34	71
486sr	26	15	51	33	71
	26	18	54	33	71
Blue Mountains					
472bl	26	17	51	34	71
	26	18	60	35	71
473bl	25	15	60	36	71
	26	15	60	36	71
474bl	25	15	51	33	71
	26	17	60	34	71
475bl	25	15	51	37	71
	26	17	60	37	71
476bl	25	15	51	33	71
	27	17	54	36	71
477bl	26	15	60	35	76
	26	17	60	35	76
"White Mountains (Inyo Co., California)"					
566iny	26	18	51	33	71
	26	18	51	33	76
567iny	25	18	51	33	71
	26	21	60	39	76
568iny	25	15	60	34	71
	26	17	60	38	71
569iny	25	15	51	35	71
	26	17	60	37	71
570iny	26	15	51	36	71
	26	17	57	38	71
571iny	26	15	51	36	71
	26	17	51	36	76
"White Mountains (Esmerelda Co., Nevada)"					
111esm	26	17	51	34	71
	26	18	51	48	76
572esm	26	15	51	35	71
	27	18	51	35	71
573esm	25	18	51	35	71
	25	18	51	37	71
574esm	25	18	51	35	71
	26	21	54	36	71
575esm	26	15	60	36	71
	27	18	60	36	71
576esm	26	17	51	32	71
	26	18	60	43	71
Yakima, Washington					
12wa	27	17	51	32	71
	27	19	51	35	76
233wa	25	17	57	34	71

	25	18	60	34	71
234wa	25	15	60	35	71
	27	15	60	36	76
Stewart					
266ste	25	15	54	35	71
	25	17	60	35	71
267ste	27	15	60	31	71
	27	15	60	35	71
268ste	26	15	60	33	71
	27	15	60	33	76
269ste	25	15	60	32	71
	27	15	60	33	71
Bear River Pass					
270brp	27	15	51	33	71
	27	15	61	33	76
271brp	25	15	60	33	71
	25	15	60	35	71
272brp	25	15	60	32	71
	28	15	60	38	71
273brp	27	15	60	33	71
	27	15	60	34	71
274brp	27	15	57	33	71
	27	15	60	34	71
275brp	25	15	60	33	71
	27	15	60	33	71
Telegraph Creek					
261tc	25	16	51	32	71
	27	17	60	34	71
262tc	27	15	60	32	71
	27	15	60	34	76
263tc	25	15	60	32	76
	27	17	60	34	76
264tc	25	15	51	33	71
	25	15	58	33	71
265tc	25	17	54	33	71
	25	17	55	37	76
Prince Rupert					
pr156	27	15	60	33	71
	27	15	60	35	76
pr157	27	15	60	33	71
	28	15	60	33	71
Vancouver Island					
286vi	25	15	60	33	71
	27	15	60	33	76
287vi	25	15	54	32	71
	27	15	60	33	76
288vi	25	15	60	33	71
	26	15	60	33	71
289vi	26	15	60	33	71
	26	15	60	34	76
290vi	27	15	60	33	71
	27	15	60	33	71
291vi	26	15	60	33	71
	27	16	60	33	76
292vi	27	15	60	34	71
	27	15	60	34	76

293vi	26	15	60	32	71
	27	15	60	34	71
294vi	27	15	59	33	71
	27	15	59	35	71
323vi	?	15	60	31	71
	?	15	60	34	76
324vi	26	15	60	34	71
	27	15	60	34	76
325vi	26	15	60	31	71
	27	15	60	34	76
Klukwan					
bc3	25	16	60	31	71
	27	17	60	31	71
aks169	27	15	60	33	71
	27	15	60	34	71
aks170	25	15	60	33	71
	27	15	60	35	71
aks171	27	15	60	34	71
	27	15	60	38	76
203aks	28	15	60	34	71
	28	15	60	34	76
204aks	27	15	54	34	71
	27	15	60	34	71
205aks	26	15	51	33	71
	27	15	60	33	71
206aks	26	15	51	31	71
	27	15	60	32	71
Queen Charlotte Island					
217pr	25	15	60	32	76
	25	15	60	33	76
276qc	25	15	60	31	76
	27	15	60	33	76
277qc	25	15	51	32	71
	27	15	60	33	76
278qc	27	15	60	32	71
	27	15	62	34	71
279qc	25	15	60	33	71
	26	15	60	33	76
280qc	27	15	51	33	71
	27	15	60	33	71
281qc	25	15	51	33	71
	27	15	58	33	71
282qc	27	15	51	33	71
	27	15	60	33	71
283qc	27	15	60	33	71
	27	15	60	36	71
284qc	25	15	51	32	76
	27	15	58	33	76
285qc	26	15	60	33	71
	27	15	60	35	71
Kenai Peninsula					
akn164	25	15	60	33	71
	27	15	60	33	71
199akk	27	15	60	33	71
	27	15	60	34	71
akk165	26	15	51	33	71

	26	15	60	33	71
akk166	27	15	60	32	71
	27	15	60	35	71
200akk	25	15	60	34	71
	27	15	60	37	76
202akk	27	15	60	32	71
	27	15	60	33	71
214akk	27	15	51	32	71
	27	15	60	33	71
215akk	27	15	60	34	71
	27	15	60	37	71
201akk	27	15	60	32	71
	27	15	60	34	76
213akk	27	15	51	34	?
	28	15	60	34	?
Woodfords					
224wod	26	15	51	35	71
	26	18	51	35	71
225wod	26	15	51	33	71
	27	18	51	36	71
226wod	26	15	51	37	71
	26	18	51	38	76
239wod	25	17	51	33	76
	25	17	57	33	76
240wod	26	18	51	33	71
	26	18	60	34	76
241wod	26	15	57	33	71
	26	18	60	33	71
531alp	26	18	51	37	71
	26	18	60	37	71
542alp	26	15	51	32	71
	26	18	51	34	71
543alp	26	18	51	35	?
	26	18	51	35	?
Mono Lake					
218mon	25	17	51	33	71
	25	18	57	36	71
219mon	25	15	51	34	71
	25	18	60	35	76
220mon	25	18	51	34	71
	26	18	62	35	76
254mon	26	15	51	33	76
	26	18	60	33	76
255mon	26	18	51	33	71
	26	18	51	33	71
256mon	25	18	51	35	71
	26	21	60	35	71
257mon	26	18	51	35	71
	28	18	60	36	71
565mon	25	18	51	36	71
	26	18	60	36	71
Lake Tahoe (California)					
501plc	26	17	51	33	76
	26	17	57	33	76
502plc	26	18	51	33	71
	26	20	62	33	71

503plc	26	18	51	34	71
	27	18	62	34	76
504plc	26	15	51	34	71
	26	19	60	34	76
505plc	26	18	51	35	71
	26	18	51	38	71
506plc	26	17	60	36	71
	26	17	60	36	71
507plc	26	18	57	33	71
	26	18	62	37	76
508plc	25	18	54	34	71
	26	18	60	34	71
509plc	27	18	57	35	71
	27	18	57	35	76
510plc	26	18	51	33	71
	28	18	62	35	76
Mt. Tom					
521frsm	26	17	51	36	71
	26	20	60	48	71
522frsm	26	18	?	37	71
	26	18	?	37	76
523frsm	25	18	51	34	71
	26	18	60	34	71
524frsm	26	18	54	35	76
	26	18	54	35	76
525frsm	26	18	51	37	71
	27	18	51	37	71
526frsm	26	21	51	42	71
	28	21	54	42	71
527frsm	26	18	51	33	71
	26	21	54	33	71
528frsm	26	18	51	35	71
	28	18	60	39	76
529frsm	25	18	51	33	71
	25	18	60	36	71
530frsm	26	17	51	33	71
	26	19	51	33	76
Mt. Shasta					
599ssk	26	17	51	35	71
	27	18	51	35	71
600ssk	26	17	51	35	71
	26	18	57	37	71
601ssk	26	18	60	35	71
	26	18	60	36	71
602ssk	25	18	57	34	71
	26	18	60	35	76
603ssk	25	18	51	33	76
	26	18	51	33	76
604ssk	27	17	51	35	71
	27	20	60	37	71
605ssk	25	18	51	33	76
	26	18	62	34	76
606ssk	25	18	51	39	71
	26	21	51	39	71
607ssk	26	18	51	35	71
	26	18	60	35	76

608ssk	26	20	51	33	71
	26	20	54	33	71
Sapp's Hill					
511t1m	25	18	60	33	71
	26	18	60	37	71
512t1m	26	15	51	38	71
	26	20	60	38	71
513t1m	26	15	51	36	71
	26	21	60	37	71
514t1m	25	15	57	35	71
	26	18	57	35	76
515t1m	25	18	51	35	71
	26	18	60	35	76
516t1m	26	18	51	34	71
	26	18	60	35	71
517t1m	25	18	51	35	71
	27	18	51	35	71
518t1m	25	18	51	36	71
	26	18	51	36	71
519t1m	25	15	51	31	71
	26	18	58	33	76
520t1m	26	18	60	37	71
	26	18	60	37	76
Lake Tahoe (Nevada)					
578dgl	25	18	54	37	71
	26	18	54	41	71
579dgl	26	18	57	33	71
	26	18	60	34	71
580dgl	27	18	51	33	71
	27	21	60	33	71
581dgl	26	18	54	34	71
	27	18	57	35	71
584dgl	25	15	51	35	71
	25	21	60	35	71
577dgl	26	18	?	36	71
	26	20	?	36	76
582dgl	26	18	?	33	71
	26	18	60	37	71
Lookout Peak					
544frs	25	18	54	34	71
	26	18	54	34	76
546frs	26	18	51	37	71
	27	21	60	37	71
547frs	26	20	60	35	71
	26	21	60	35	71
548frs	26	18	51	34	71
	26	18	54	34	71
550frs	26	18	51	31	71
	26	18	57	31	76
551frs	26	18	51	34	71
	26	18	62	47	71
555frs	26	15	51	35	71
	26	18	57	35	71
545frs	25	18	57	38	?
	26	18	62	38	?
549frs	?	18	51	36	76

	29	18	54	36	76
556frs	26	18	51	33	71
	?	18	60	35	71
San Bernardino Mtns.					
634sb	26	18	57	?	71
	28	18	57	?	71
638sb	25	18	?	33	71
	26	21	62	49	71
635sb	27	18	51	34	71
	27	18	60	34	76
636sb	26	18	54	33	71
	26	18	62	35	76
637sb	25	18	51	35	71
	26	18	62	40	71
639sb	27	18	51	34	71
	27	18	60	35	76
640sb	26	15	51	33	71
	26	18	60	35	71
641sb	25	18	51	34	71
	27	20	51	35	71
642sb	26	18	51	35	71
	28	18	60	35	71
643sb	26	21	51	36	71
	26	21	51	45	71
Dome Rock					
552tr	25	18	60	36	71
	26	18	60	45	76
553tr	26	18	51	33	71
	26	21	54	35	76
554tr	26	18	51	33	71
	26	18	51	38	71
557tr	25	18	54	34	71
	28	18	62	34	71
558tr	27	18	54	33	71
	27	18	62	39	71
559tr	26	18	58	34	71
	26	18	58	34	71
560tr	25	18	51	35	71
	26	18	60	35	71
561tr	25	18	51	34	76
	26	21	51	35	76
562tr	26	15	51	35	71
	26	18	60	35	71
563tr	27	15	54	37	71
"Black Butte (Glenn Co., California)"					
630gln	26	18	51	35	76
	26	21	57	35	76
631gln	26	16	51	34	76
	27	18	60	37	76
632gln	26	18	58	35	71
	26	21	62	36	76
635gln	27	18	51	37	71
	27	18	51	42	71
"Black Butte (Mendocino					

Co., California)"

619mnd	26	18	51	32	76
	27	18	60	33	76
620mnd	26	18	57	36	76
	26	18	60	37	76
621mnd	26	18	51	35	71
	26	18	58	?	71
622mnd	26	18	51	34	71
	26	18	54	37	76
623mnd	25	15	51	33	71
	26	18	60	39	76
624mnd	26	18	57	37	71
	26	18	60	37	76
625mnd	26	18	54	35	71
	26	18	57	36	71
626mnd	27	17	57	33	71
	27	18	60	33	76
627mnd	26	18	57	38	71
	26	18	58	38	76
628mnd	25	18	60	34	71
	25	19	62	36	71
Yolla Bolly Mountains					
610trn	26	18	51	34	71
	26	18	57	37	71
611trn	27	18	60	35	71
	27	18	60	35	76
612trn	26	18	51	37	71
	26	18	54	37	71
613trn	26	18	51	32	71
	27	18	54	35	76
614trn	?	18	51	38	71
	27	18	57	38	71
615trn	25	18	54	34	71
	26	18	60	35	76
616trn	26	18	51	35	71
	27	18	60	35	71
617trn	26	18	51	37	71
	26	18	51	41	71
618trn	27	18	51	33	76
	27	18	60	35	76
Warner Mountains					
532mdc	?	15	57	35	71
	?	17	60	36	71
533mdc	26	18	51	37	71
	26	18	62	37	76
534mdc	25	15	51	33	71
	26	18	51	33	76
535mdc	26	18	51	39	71
	26	18	60	39	76
536mdc	26	18	51	35	71
	27	18	60	35	71
537mdc	25	15	51	33	71
	25	18	62	33	71
538mdc	25	15	51	30	71
	25	21	60	30	76
539mdc	26	18	51	34	71

	26	18	51	38	76
540mdc	25	18	51	37	71
	26	18	57	38	71
541mdc	26	15	54	34	71
	26	18	60	35	76
221wrn	26	18	51	34	71
	26	18	51	34	71
222wrn	26	15	51	37	71
	26	18	60	40	71
223wrn	25	18	51	33	71
	26	21	57	33	71
242wrn	25	15	54	35	71
	26	15	54	43	76
243wrn	26	18	51	33	71
	26	18	57	34	71
244wrn	26	18	51	36	71
	27	21	57	46	71
Deschutes Co., Oregon					
478ss	25	18	51	34	71
	27	18	60	35	71
480ss	26	18	60	34	71
	27	21	60	37	76
481ss	26	15	51	32	71
	27	18	60	37	76
482ss	25	18	58	39	76
	25	20	60	39	76
Steens Mountain					
248stn	26	15	51	31	71
	26	15	60	34	71
249stn	25	17	51	33	71
	26	18	60	37	71
250stn	25	15	60	33	71
	26	17	60	34	71
251stn	26	15	51	34	71
	26	17	60	34	71
252stn	25	17	51	34	71
	26	17	60	47	76
253stn	25	15	51	35	76
	26	17	60	37	76
Odell Butte					
227odl	26	18	51	35	71
	26	18	60	35	71
228odl	26	18	51	34	71
	26	18	60	37	71
229odl	28	18	51	33	71
	28	18	51	34	71
236odl	26	17	51	35	71
	26	20	57	37	71
237odl	26	18	51	36	71
	27	18	51	36	71
238odl	26	15	54	35	71
	26	17	62	37	71

	KL	QC	KP	WD	ML	LT-PL	MT	MS	EB	LT-DO	LO	SB	DR	BB-GL	BB-ME	YB	WN	SS	SM	OB	
KL	-																				
QC	inf	-																			
KP	inf	23	-																		
WD	0.4	0.5	0.3	-																	
ML	0.6	0.8	0.5	inf	-																
LT-PL	1.1	1.3	0.8	2.2	inf	-															
MT	0.3	0.4	0.3	5.8	11	2.1	-														
MS	0.4	0.5	0.4	45	inf	14	inf	-													
EB	0.7	0.8	0.6	5.0	inf	inf	10	inf	-												
LT-DO	0.6	0.6	0.5	1.7	inf	inf	2.6	18	inf	-											
LO	0.6	0.7	0.5	5.0	inf	inf	inf	inf	inf	inf	-										
SB	0.6	0.6	0.5	2.8	17	7.9	inf	58	inf	inf	inf	-									
DR	0.7	0.8	0.6	3.5	inf	inf	21	inf	inf	inf	inf	inf	-								
BB-GL	0.4	0.5	0.3	2.2	8.2	7.8	inf	inf	12	2.0	inf	inf	inf	-							
BB-ME	0.7	0.9	0.6	1.1	5.3	inf	1.9	4.2	26	4.4	inf	6.5	inf	inf	-						
YB	0.4	0.5	0.4	11	inf	8.1	3.3	inf	inf	9.6	inf	inf	inf	inf	4.6	-					
WN	0.6	0.7	0.6	inf	inf	7.2	inf	inf	inf	42	inf	inf	inf	26	4.8	inf	-				
SS	0.7	0.9	0.6	0.9	3.3	inf	3.2	3.0	11	4.5	106	11	inf	inf	inf	3.0	3.2	-			
SM	2.1	2.5	1.7	4.1	inf	inf	2.7	6.6	inf	inf	inf	20	inf	7.2	inf	10	176	inf	-		
OB	0.4	0.4	0.3	223	inf	2.7	inf	inf	inf	46	inf	429	inf	2.2	1.3	inf	inf	1.1	5.3	-	