

Appendix 1. List of the Lined Seedeater *Sporophila lineola* museum specimens examined, museums acronyms, specimen numbers, month of collection, country and state of collection, sex (M: male, F: female, I: undetermined), abrasion of feathers, presence of juvenile tracts and cycle code for each specimen are provided. Classification scheme of feather abrasion: N: no indication of abrasion and a distinctive gloss; S: slightly abraded, feather which shows traces of abrasion but cannot be classified as old; A: abraded, some fading over most of the feather, particularly on those feather tips not usually shaded by other feathers. V: very abraded; feather faded and worn. Classification scheme for the presence of juvenile tracts: N: no indication of juvenile tracts; R: juvenile rectrices; PP: juvenile primaries; SS: juvenile primaries; GC: juvenile greater coverts. Cycle code Unabbreviated WRP: first cycle juvenile (FCJ), first cycle preformative molt (FPF), first cycle formative (FCF), at minimum in formative plumage (M-FCF), second prebasic molt (SPB), second basic plumage (SCB), definitive prebasic molt (DPB), definite cycle basic (DCB).

Museum	Number	Month	Country	State	Sex	Body feathers	Primaries	Rectrices	Tertials	Juvenal traits	Age code
CM	79915	Nov.	BO	Santa Cruz	M	S	S	S	S	N	DCB
CM	120033	Jun.	BO	Santa Cruz	M	S	S	S	S	N	DCB
LSUMZ	125036	Feb.	BO	Santa Cruz	M	A	A	V	A	N	SPB
LSUMZ	125033	Feb.	BO	Santa Cruz	M	N	S	S	S	N	DCB
LSUMZ	125034	Feb.	BO	Santa Cruz	M	A	A	S	A	N	M-FCF
LSUMZ	125039	Apr.	BO	Santa Cruz	F	N	A	N	N	N	DCB
LSUMZ	125038	Apr.	BO	Santa Cruz	F	V	V	V	V	N	DPB?
LSUMZ	36802	Dec.	BO	Santa Cruz	M	N	N	N	N	N	DCB
LSUMZ	38402	Dec.	BO	Santa Cruz	M	N	N	N	N	N	DCB
MZUSP	28986	Jan.	BR	São Paulo	M	A	A	S	A	N	M-FCF
MZUSP	28964	Jan.	BR	São Paulo	M	N	S	S	S	N	M-FCF
MZUSP	30980	Feb.	BR	São Paulo	M	S	S	A	A	R	FCF
MZUSP	29043	Feb.	BR	São Paulo	M	A	S	A	A	R	FCF
MZUSP	29044	Feb.	BR	São Paulo	M	A	A	A	A	R	FCF
MZUSP	29042	Feb.	BR	São Paulo	M	A	A	A	A	R	FCF

MZUSP	104994	Jan.	BR	São Paulo	F	N	A	A	A	N	DCB
MZUSP	30982	Feb.	BR	São Paulo	F	A	A	A	A	R	FCF
MZUSP	28967	Jan.	BR	São Paulo	F	S	A	A	A	R	FCF
MZUSP	28965	Jan.	BR	São Paulo	F	S	S	S	A	N	DCB
MZUSP	81070	Apr.	BR	São Paulo	F	S	S	S	S	N	DCB
MZUSP	35332	Aug.	BR	Mato Grosso	I	N	S	N	N	N	M-FCF
MZUSP	85417	Oct.	BR	Mato Grosso	M	S	N	N	S	N	M-FCF
MZUSP	95296	Oct./Sep.	BR	Mato Grosso	I	N	N	N	N	N	M-FCF
MZUSP	32643	Jan.	BR	Mato Grosso	F	N	S	S	S	N	DCB
MZUSP	23014	Dec.	BR	Amazonas	F	S	A	A	A	R	FCF
MZUSP	22985	Dec.	BR	Amazonas	F	N	N	N	S	N	DCB
MZUSP	43328	Sep.	BR	São Paulo	M	S	N	S	N	N	DCB
MZUSP	54735	Nov.	BR	São Paulo	M	N	S	S	S	N	DCB
MZUSP	54734	Nov.	BR	São Paulo	M	S	A	S	S	N	SCB?
MZUSP	54736	Nov.	BR	São Paulo	M	N	A	A	S	N	DCB
MZUSP	104995	Jan.	BR	São Paulo	M	N	S	S	S	N	DCB
MZUSP	26298	Jan.	BR	São Paulo	M	N	A	S	S	N	DCB
MZUSP	28944	Jan.	BR	São Paulo	M	N	S	S	S	N	DCB
MZUSP	28945	Jan.	BR	São Paulo	M	N	S	S	S	N	DCB
MZUSP	28946	Jan.	BR	São Paulo	M	N	S	S	S	N	DCB
MZUSP	104998	Feb.	BR	São Paulo	M	S	A	A	A	N	DCB
MZUSP	50974	Feb.	BR	São Paulo	M	N	S	S	S	N	DCB
MZUSP	50975	Feb.	BR	São Paulo	M	N	S	S	S	N	DCB
MZUSP	29041	Feb.	BR	São Paulo	M	N	S	S	S	N	DCB
MZUSP	29040	Feb.	BR	São Paulo	M	N	A	A	S	N	DCB
MZUSP	4364	Mar.	BR	São Paulo	M	S	S	S	S	N	SCB?
MZUSP	15310	Jan.	BR	Goiás	M	N	S	N	S	N	DCB
MZUSP	15311	Jan.	BR	Goiás	M	N	S	N	N	N	DCB
MZUSP	95292	Oct./Sep.	BR	Mato Grosso	M	N	N	N	N	N	DCB

MZUSP	32642	Jan.	BR	Mato Grosso	M	N	S	S	N	N	DCB
MZUSP	19573	Nov.	BR	Amazonas	M	N	A	S	A	N	SCB?
MZUSP	23021	Nov.	BR	Amazonas	M	N	N	N	N	N	DCB
MZUSP	22986	Dec.	BR	Amazonas	M	N	N	N	N	N	DCB
MZUSP	38032	Jan.	BR	Rondônia	M	N	S	N	N	N	DCB
MZUSP	80841		BR	São Paulo	F	N	A	A	A	PP, R, GC	FPF
MZUSP	79819	Feb.	BR	Tocantins	M	S	S	N	S	N	M-FCF
MZUSP	41200	Mar.	BR	Bahia	F	S	A	A	A	R	FCF
MZUSP	41197	Mar.	BR	Bahia	F	A	A	A	A	R	FCF
MZUSP	63599	Jun.	BR	Pernambuco	F	A	A	A	A	R	FCF
MZUSP	63602	Jun.	BR	Pernambuco	F	N	N	N	N	R (all)	FPF
MZUSP	636140	Jun.	BR	Pernambuco	F	A	A	A	N	R (all)	FCF
MZUSP	63524	Jun.	BR	Pernambuco	F	N	N	S	S	R (all)	FCJ
MZUSP	63555	Jun.	BR	Pernambuco	F	A	A	A	A	R	FCF
MZUSP	59730	Aug.	BR	Pará	M	S	S	A	A	R (all)	FCF
MZUSP	59731	Aug.	BR	Pará	M	N	S	A	A	R (all)	FCF
MZUSP	38608	Oct.	BR	Pará	M	N	N	N	N	N	M-FCF
MZUSP	47485	Nov.	BR	Pará	I	N	N	N	S	N	M-FCF
MZUSP	38607	Oct.	BR	Pará	I	S	N	N	S	N	M-FCF
MZUSP	59729	Aug.	BR	Pará	F	S	A	A	N	R (all)	FPF?
MZUSP	43143	Oct.	BR	Pará	M	N	S	N	N	N	DCB
MZUSP	38603	Oct.	BR	Pará	M	N	S	N	N	N	DCB
MZUSP	38606	Oct.	BR	Pará	M	N	A	N	N	N	DCB
MZUSP	38605	Oct.	BR	Pará	M	N	N	N	N	N	DCB
MZUSP	38604	Oct.	BR	Pará	M	N	S	N	N	N	DCB
MZUSP	82316	Jan.	BR	Pará	M	N	N	N	N	N	DCB
MZUSP	77894	Jan.	BR	Piauí	M	N	N	N	N	N	DCB
MZUSP	104997	May	BR	Pernambuco	M	A	A	A	A	N	DCB
MZUSP	104999	May	BR	Pernambuco	M	S	A	A	A	N	DCB

MZUSP	100503	May	BR	Pernambuco	M	A	A	A	A	N	DCB
MZUSP	61713	May	BR	Pernambuco	M	A	A	A	A	N	DCB
MZUSP	61714	May	BR	Pernambuco	M	A	A	A	A	N	DCB
MZUSP	63491	Jun.	BR	Pernambuco	M	S	A	A	S	N	DCB
MZUSP	41199	Mar.	BR	Bahia	M	S	A	S	A	N	DCB
MZUSP	41198	Mar.	BR	Bahia	M	S	S	A	A	N	DCB
MZUSP	63485	Jun.	BR	Pernambuco	M	S	A	A	A	N	DCB
MZUSP	63558	Jun.	BR	Pernambuco	M	S	A	A	A	N	DCB
MZUSP	40599	Jun.	BR	Paraíba	M	S	A	A	A	N	DCB
MZUSP	63486	Jun.	BR	Pernambuco	M	S	A	A	A	N	DCB
MZUSP	63491	Jun.	BR	Pernambuco	M	S	A	A	A	N	DCB
MZUSP	3101	–	BR	Bahia	M	S	S	A	S	N	DCB
MZUSP	7407	Jan.	BR	Bahia	M	N	S	S	S	N	DCB
MZUSP	104993	Mar.	BR	Ceará	F	N	S	N	N	all	FCJ
MNRJ	29974	Nov.	BR	Amapá	M	N	N	S	N	N	DCB
MNRJ	29573	Oct.	BR	Amazonas	M	N	N	N	N	N	DCB
MNRJ	29576	Oct.	BR	Amazonas	F	N	N	N	N	N	DCB
MNRJ	29574	Oct.	BR	Amazonas	F	N	N	N	N	N	DCB
MNRJ	29572	Oct.	BR	Amazonas	M	S	S	S	S	N	DCB
MNRJ	8461	Oct.	BR	Amazonas	M	S	A	A	A	N	DCB
MNRJ	31199	Nov.	BR	Mato Grosso	M	N	N	S	N	N	DCB
MNRJ	31180	Jan.	BR	Mato Grosso	F	S	S	A	A	N	DCB
MNRJ	31191	Dec.	BR	Mato Grosso	M	N	N	S	N	N	DCB
MNRJ	31198	Jul.	BR	Goiás	M	S	A	A	S	N	DCB
MNRJ	33680	Nov.	BR	Mato Grosso	M	N	N	S	S	N	DCB
MNRJ	50406	Dec.	BR	Pernambuco	M	S	A	A	A	N	DCB
MNRJ	14367	Feb.	BR	Pará	M	S	S	A	S	N	DCB
MNRJ	37852	Jul.	BR	Rondônia	M	N	S	A	S	N	DCB
MNRJ	28891	Jun.	BR	Minas Gerais	M	S	N	S	S	N	DCB

MNRJ	28788	Jan.	BR	Minas Gerais	M	N	S	S	S	N	DCB
MNRJ	43429	Feb.	BR	Paraná	M	S	S	A	S	N	DCB
MNRJ	14193	Jun.	BR	Ceará	M	S	A	A	S	R	FPF
MNRJ	38369	Mar.	BR	Alagoas	M	S	S	S	S	N	DCB
MNRJ	9912	Nov.	BR	Mato Grosso	M	N	N	S	S	N	DCB
CM	86654	Dec.	BR	Amazonas	M	N	A	N	N	SS	SPB
CM	98699	Oct.	BR	Amazonas	M	N	N	N	N	N	DCB
CM	75813	Dec.	BR	Pará	M	S	S	S	S	N	DCB
CM	76852	Feb.	BR	Pará	M	S	S	S	S	N	DCB
CM	86883	Dec.	BR	Amazonas	M	S	S	S	S	N	DCB
CM	62191	Jun.	GUF	Mana	M	S	V	S	S	N	SPB
CM	61397	May	GUF	Mana	M	A	A	N	S	N	DCB
CM	62190	Jun.	GUF	Mana	M	S	S	S	S	N	DCB
LSUMZ	52491	Jun.	PE	Loreto	M	N	N	N	N	N	DCB
LSUMZ	116296	Jun.	PE	Loreto	F	N	N	N	N	N	DCB
LSUMZ	178394	Jun.	SR	Sipaliwini	M	S	S	N	N	N	DCB
CM	?	Aug.	VE	Zulia	M	N	V	N	N	N	DCB