

APPENDIX 3

TURTLE MARKING CODES
AND
HERPETOFAUNA PHOTO VOUCHER
GUIDELINES

Appendix 3
Turtle Marking Codes & Herpetofauna Photo Vouchering

MARKING CODES FOR TURTLES:

2 scutes marked = 120 individual marks:

AB	BC	CH	HI	IJ	JK	KL	LM	MN	NO	OP	PQ	QV	VW	WX
AC	BH	CI	HJ	IK	JL	KM	LN	MO	NP	OQ	PV	QW	VX	
AH	BI	CJ	HK	IL	JM	KN	LO	MP	NQ	OV	PW	QX		
AI	BJ	CK	HL	IM	JN	KO	LP	MQ	NV	OW	PX			
AJ	BK	CL	HM	IN	JO	KP	LQ	MV	NW	OX				
AK	BL	CM	HN	IO	JP	KQ	LV	MW	NX					
AL	BM	CN	HO	IP	JQ	KV	LW	MX						
AM	BN	CO	HP	IQ	JV	KW	LX							
AN	BO	CP	HQ	IV	JW	KX								
AO	BP	CQ	HV	IW	JX									
AP	BQ	CV	HW	IX										
AQ	BV	CW	HX											
AV	BW	CX												
AW	BX													
AX														

Marking codes for turtles:

3 scutes marked = 560 individual marks:

ABC	ACW	AJK	ALW	AQW	BHP	BJX	BNO	CHM	CJQ	CMV	HIK	HKQ	HOP
ABH	ACX	AJL	ALX	AQX	BHQ	BKL	BNP	CHN	CJV	CMW	HIL	HKV	HOQ
ABI	AHI	AJM	AMN	AVW	BHV	BKM	BNQ	CHO	CJW	CMX	HIM	HKW	HOV
ABJ	AHJ	AJN	AMO	AVX	BHW	BKN	BNV	CHP	CJX	CNO	HIN	HKX	HOW
ABK	AHK	AJO	AMP	AWX	BHX	BKO	BNW	CHQ	CKL	CNP	HIO	HLM	HOX
ABL	AHL	AJP	AMQ	BCH	BIJ	BKP	BNX	CHV	CKM	CNQ	HIP	HLN	HPQ
ABM	AHM	AJQ	AMV	BCI	BIK	BKQ	BOP	CHW	CKN	CNV	HIQ	HLO	HPV
ABN	AHN	AJV	AMW	BCJ	BIL	BKV	BOQ	CHX	CKO	CNW	HIV	HLP	HPW
ABO	AHO	AJW	AMX	BCK	BIM	BKW	BOV	CIJ	CKP	CNX	HIW	HLQ	HPX
ABP	AHP	AJX	ANO	BCL	BIN	BKX	BOW	CIK	CKQ	COP	HIX	HLV	HQV
ABQ	AHQ	AKL	ANP	BCM	BIO	BLM	BOX	CIL	CKV	COQ	HJK	HLW	HQW
ABV	AHV	AKM	ANQ	BCN	BIP	BLN	BPQ	CIM	CKW	COV	HJL	HLX	HQX
ABW	AHW	AKN	ANV	BCO	BIQ	BLO	BPV	CIN	CKX	COW	HJM	HMN	HVW
ABX	AHX	AKO	ANW	BCP	BIV	BLP	BPW	CIO	CLM	COX	HJN	HMO	HVX
ACH	AIJ	AKP	ANX	BCQ	BIW	BLQ	BPX	CIP	CLN	CPQ	HJO	HMP	HWX
ACI	AIK	AKQ	AOP	BCV	BIX	BLV	BQV	CIQ	CLO	CPV	HJP	HMQ	IJK
ACJ	AIL	AKV	AOQ	BCW	BJK	BLW	BQW	CIV	CLP	CPW	HJQ	HMV	IJL
ACK	AIM	AKW	AOV	BCX	BJL	BLX	BQX	CIW	CLQ	CPX	HJV	HMW	IJM
ACL	AIN	AKX	AOW	BHI	BJM	BMN	BVW	CIX	CLV	CQV	HJW	HMX	IJN
ACM	AIO	ALM	AOX	BHJ	BJN	BMO	BVX	CJK	CLW	CQW	HJX	HNO	IJO
CAN	AIP	ALN	APQ	BHK	BJO	BMP	BWX	CJL	CLX	CQX	HKL	HNP	IJP
ACO	AIQ	ALO	APV	BHL	BJP	BMQ	CHI	CJM	CMN	CVW	HKM	HNQ	IJQ
ACP	AIV	ALP	APW	BHM	BJQ	BMV	CHJ	CJN	CMO	CVX	HKN	HNV	IJV
ACQ	AIW	ALQ	APX	BHN	BJV	BMW	CHK	CJO	CMP	CWX	HKO	HNW	IJW
ACV	AIX	ALV	AQV	BHO	BJW	BMX	CHL	CJP	CMQ	HIJ	HKP	HNX	IJX

Marking codes for turtles:

3 scutes marked = 560 individual marks (continued from previous page):

IKL	INP	JKQ	JOP	KMP	KWX	LQX	NOP	PQV
IKM	INQ	JKV	JOQ	KMQ	LMN	LVW	NOQ	PQW
IKN	INV	JKW	JOV	KMV	LMO	LVX	NOV	PQX
IKO	INW	JKX	JOW	KMW	LMP	LWX	NOW	PVW
IKP	INX	JLM	JOX	KMX	LMQ	MNO	NOX	PVX
IKQ	IOP	JLN	JPQ	KNO	LMV	MNP	NPQ	PWX
IKV	IOQ	JLO	JPV	KNP	LMW	MNQ	NPV	QVW
IKW	IOV	JLP	JPW	KNQ	LMX	MNV	NPW	QVX
IKX	IOW	JLQ	JPX	KNV	LNO	MNW	NPX	QWX
ILM	IOX	JLV	JQV	KNW	LNP	MNX	NQV	VWX
ILN	IPQ	JLW	JQW	KNX	LNQ	MOP	NQW	
ILO	IPV	JLX	JQX	KOP	LNV	MOQ	NQX	
ILP	IPW	JMN	JVW	KOQ	LNW	MOV	NVW	
ILQ	IPX	JMO	JVX	KOV	LNX	MOW	NVX	
ILV	IQV	JMP	JWX	KOQ	LOP	MOX	NWX	
ILW	IQW	JMQ	KLM	KOX	LOQ	MPQ	OPQ	
ILX	IQX	JMV	KLN	KPQ	LOV	MPV	OPV	
IMN	IVW	JMW	KLO	KPV	LOW	MPW	OPW	
IMO	IVX	JMX	KLP	KPW	LOX	MPX	OPX	
IMP	IWX	JNO	KLQ	KPX	LPQ	MQV	OQV	
IMQ	JKL	JNP	KLV	KQV	LPV	MQW	OQW	
IMV	JKM	JNQ	KLW	KQW	LPW	MQX	OQX	
IMW	JKN	JNV	KLX	KQX	LPX	MVW	OVW	
IMX	JKO	JNW	KMN	KVW	LQV	MVX	OVX	
INO	JKP	JNX	KMO	KVX	LQW	MWX	OWX	

Marking codes for turtles:

4 scutes marked = 1,799 individual marks:

ABCH	ABIJ	ABKP	ABNX	ACHV	ACKM	ACNQ	AHIP	AHLN	AHPQ	AIKQ	AIOP	AJLN	AJPQ
ABCI	ABIK	ABKQ	ABOP	ACHW	ACKN	ACNV	AHIQ	AHLO	AHPV	AIKV	AIOQ	AJLO	AJPV
ABCJ	ABIL	ABKV	ABOQ	ACHX	ACKO	ACNW	AHIV	AHLP	AHPW	AIKW	AIOV	AJLP	AJPW
ABCK	ABIM	ABKW	ABOV	ACIJ	ACKP	ACNX	AHIW	AHLQ	AHPX	AIKX	AIOW	AJLQ	AJPX
ABCL	ABIN	ABKX	ABOW	ACIK	ACKQ	ACOP	AHIX	AHLV	AHQV	AILM	AIOX	AJLV	AJQV
ABCM	ABIO	ABLM	ABOX	ACIL	ACKV	ACOQ	AHJK	AHLW	AHQW	AILN	AIPQ	AJLW	AJQW
ABCN	ABIP	ABLN	ABPQ	ACIM	ACKW	ACOV	AHJL	AHLX	AHQX	AILO	AIPV	AJLX	AJQX
ABCO	ABIQ	ABLO	ABPV	ACIN	ACKX	ACOW	AHJM	AHMN	AHVW	AILP	AIPW	AJMN	AJVW
ABCP	ABIV	ABLP	ABPW	ACIO	ACLM	ACOX	AHJN	AHMO	AHVX	AILQ	AIPX	AJMO	AJVX
ABCQ	ABIW	ABLQ	ABPX	ACIP	ACLN	ACPQ	AHJO	AHMP	AHWX	AILV	AIQV	AJMP	AJWX
ABCV	ABIX	ABLV	ABQV	ACIQ	ACLO	ACPV	AHJP	AHMQ	AJK	AILW	AIQW	AJMQ	AKLM
ABCW	ABJK	ABLW	ABQW	ACIV	ACLQ	ACPW	AHJQ	AHNV	AJL	AILX	AIQX	AJMV	AKLN
ABCX	ABJL	ABLX	ABQX	ACIW	ACLQ	ACPX	AHJV	AHMQ	AJL	AIMN	AIVW	AJMW	AKLO
ABHI	ABJM	ABMN	ABVW	ACIX	ACLV	ACQV	AHJW	AHMX	AJN	AIMO	AIVX	AJMX	AKLP
ABHJ	ABJN	ABMO	ABVX	ACJK	ACLW	ACQW	AHJX	AHNO	AJO	AIMP	AIWX	AJNO	AKLQ
ABHK	ABJO	ABMP	ABWX	ACJL	ACLX	ACQX	AHKL	AHNP	AJP	AIMQ	AJKL	AJNP	AKLV
ABHL	ABJP	ABMQ	ACHI	ACJM	ACMN	ACVW	AHKM	AHNQ	AJQ	AIMV	AJKM	AJNQ	AKLW
ABHM	ABJQ	ABMV	ACHJ	ACJN	ACMO	ACVX	AHKN	AHNV	AJV	AIMW	AJKN	AJNV	AKLX
ABHN	ABJV	ABMW	ACHK	ACJO	ACMP	ACWX	AHKO	AHNW	AJW	AIMX	AJKO	AJNW	AKMN
ABHO	ABJW	ABMX	ACHL	ACJP	ACMQ	AHIJ	AHKP	AHNX	AJX	AINO	AJKP	AJNX	AKMO
ABHP	ABJX	ABNO	ACHM	ACJQ	ACMV	AHIK	AHKQ	AHOP	AIKL	AINP	AJKQ	AJOP	AKMP
ABHQ	ABKL	ABNP	ACHN	ACJV	ACMW	AHIL	AHKV	AHOQ	AIKM	AINQ	AJKV	AJOQ	AKMQ
ABHV	ABKM	ABNQ	ACHO	ACJW	ACMX	AHIM	AHKW	AHOV	AIKN	AINV	AJKW	AJOV	AKMV
ABHW	ABKN	ABNV	ACHP	ACJX	ACNO	AHIN	AHKX	AHOW	AIKO	AINW	AJKX	AJOW	AKMW
ABHX	ABKO	ABNW	ACHQ	ACKL	ACNP	AHIO	AHLM	AHOX	AIKP	AINX	AJLM	AJOX	AKMX

Marking codes for turtles:

4 scutes marked = 1,799 individual marks (continued from previous page):

AKNO	ALNO	AMOV	ANWX	BCHP	BCKN	BCOP	BHJM	BHMQ	BIJN	BIMV	BJKP	VJOV	BKNO
AKNP	ALNP	AMOV	AOPQ	BCHQ	BCKO	BCOQ	BHJN	BHMQ	BIJO	BIMW	BJKQ	BJOW	BKNP
AKNQ	ALNQ	AMOW	AOPV	BCHV	BCKP	BCOV	BHJO	BHMQ	BIJP	BIMX	BJKV	BJOX	BKNQ
AKNV	ALNV	AMOX	AOPW	BCHW	BCKQ	BCOW	BHJP	BHMX	BIJQ	BINO	BJKW	BJPQ	BKNV
AKNW	ALNW	AMPQ	AOPX	BCHX	BCKV	BCOX	BHJQ	BHNO	BIJV	BINP	BJKX	BJPV	BKNW
AKNX	ALNX	AMPV	AOQV	BCIJ	BCKW	BCPQ	BHJV	BHNP	BIJW	BINQ	BJLM	BJPW	BKNX
AKOP	ALOP	AMPW	AOQW	BCIK	BCKX	BCPV	BHJW	BHNQ	BIJX	BINV	BJLN	BJPX	BKOP
AKOQ	ALOQ	AMPX	AOQX	BCIL	BCLM	BCPW	BHJX	BHNV	BIKL	BINW	BJLO	BJQV	BKOQ
AKOV	ALOV	AMQV	AOVW	BCIM	BCLN	BCPX	BHKL	BHNP	BIKM	BINX	BJLP	BJQW	BKOV
AKOW	ALOW	AMQW	AOVX	BCIN	BCLO	BCQV	BHKM	BHNP	BIKN	BIOP	BJLQ	BJQX	BKOW
AKOX	ALOX	AMQX	AOWX	BCIO	BCLP	BCQW	BHKN	BHOP	BIKO	BIOQ	BJLV	BJVW	BKOX
AKPQ	ALPQ	AMVW	APQV	BCIP	BCLQ	BCQX	BHKO	BHOQ	BIKP	BIOV	BJLW	BJVX	BKPQ
AKPV	ALPV	AMVX	APQW	BCIQ	BCLV	BCVW	BHKP	BHOV	BIKQ	BIOW	BJLX	BJWX	BKPV
AKPW	ALPW	AMWX	APQX	BCIV	BCLW	BCVX	BHKQ	BHOW	BIKV	BIOX	BJMN	BKLM	BKPW
AKPX	ALPX	ANOP	APVW	BCIW	BCLX	BCWX	BHKV	BHOX	BIKW	BIPQ	BJMO	BKLN	BKPX
AKQV	ALQV	ANOQ	APVX	BCIX	BCMN	BHIJ	BHKW	BHPQ	BIKX	BIPV	BJMP	BKLO	BKQV
AKQW	ALQW	ANOV	APWX	BCJK	BCMO	BHIK	BHKX	BHPV	BILM	BIPW	BJMQ	BKLP	BKQW
AKQX	ALQX	ANOW	AQVW	BCJL	BCMP	BHIL	BHLM	BHPW	BILN	BIPX	BJMV	BKMQ	BKQX
AKVW	ALVW	ANOX	AQVX	BCJM	BCMQ	BHIM	BHLN	BHPX	BILO	BIQV	BJMW	BKLV	BKVW
AKVX	ALVX	ANPQ	AQWX	BCJN	BCMV	BHIN	BHLO	BHQV	BILP	BIQW	BJMX	BKLV	BKVX
AKWX	ALWX	ANPV	AVWX	BCJO	BCMW	BHIO	BHLP	BHQW	BILQ	BIQX	BJNO	BKLV	BKWX
ALMN	AMNO	ANPW	BCHI	BCJP	BCMX	BHIP	BHLQ	BHQX	BILV	BIVW	BJNP	BKMN	BLMN
ALMO	AMNP	ANPX	BCHJ	BCJQ	BCNO	BHIQ	BHLV	BHVW	BILW	BIVX	BJNQ	BKMO	BLMO
ALMP	AMNQ	ANQV	BCHK	BCJV	BCNP	BHIV	BHLW	BHVX	BILX	BIWX	BJNV	BKMP	BLMP
ALMQ	AMNV	ANQW	BCHL	BCJW	BCNQ	BHIW	BHLX	BHWX	BIMN	BJKL	BJNW	BKMQ	BLMQ
ALMV	AMNW	ANQX	BCHM	BCJX	BCNV	BHIX	BHMN	BIJK	BIMO	BJKM	BJNX	BKMV	BLMV
ALMW	AMNX	ANVW	BCHN	BCKL	BCNW	BHJK	BHMO	BIJL	BIMP	BJKN	BJOP	BKMW	BLMW
ALMX	AMOP	ANVX	BCHO	BCKM	BCNX	BHJL	BHMP	BIJM	BIMQ	BJKO	BJOQ	BKMX	BLMX

Marking codes for turtles:

4 scutes marked = 1,799 individual marks (continued from previous pages):

BLNO	BNOQ	BPVX	CHKM	CHNX	CIKN	CIOP	CJLQ	CJQX	CKOW	CLOW	CMQW	CPVX	HIKV
BLNP	BNOV	BPWX	CHKN	CHOP	CIKO	CIOQ	CJLV	CJVW	CKOX	CLOX	CMQX	CPWX	HIKW
BLNQ	BNOW	BQVW	CHKO	CHOQ	CIKP	CIOV	CJLW	CJVX	CKPQ	CLPQ	CMVW	CQVW	HIKX
BLNV	BNOX	BQVX	CHKP	CHOV	CIKQ	CIOW	CJLX	CJWX	CKPV	CLPV	CMVX	CQVX	HILM
BLNW	BNPQ	BQWX	CHKQ	CHOW	CIKV	CIOX	CJMN	CKLM	CKPW	CLPW	CMWX	CQWX	HILN
BLNX	BNPV	BVWX	CHKV	CHOX	CIKW	CIPQ	CJMO	CKLN	CKPX	CLPX	CNOP	CVWX	HILO
BLOP	BNPW	CHIJ	CHKW	CHPQ	CIKX	CIPV	CJMP	CKLO	CKQV	CLQV	CNOQ	CPVX	HILP
BLOQ	BNPX	CHIK	CHKX	CHPV	CILM	CIPW	CJMQ	CKLP	CKQW	CLQW	CNOV	CPWX	HILQ
BLOV	BNQV	CHIL	CHLM	CHPW	CILN	CIPX	CJMV	CKLQ	CKQX	CLQX	CNOW	CQVW	HILV
BLOW	BNQW	CHIM	CHLN	CHPX	CILO	CIQV	CJMW	CKLV	CKVW	CLVW	CNOX	CQVX	HILW
BLOX	BNQX	CHIN	CHLO	CHQV	CILP	CIQW	CJMX	CKLW	CKVX	CLVX	CNPQ	CQWX	HILX
BLPQ	BNVW	CHIO	CHLP	CHQW	CILQ	CIQX	CJNO	CKLX	CKWX	CLWX	CNPV	CVWX	HIMN
BLPV	BNVX	CHIP	CHLQ	CHQX	CILV	CIVW	CJNP	CKMN	CLMN	CMNO	CNPW	HIJK	HIMO
BLPW	BNWX	CHIQ	CHLV	CHVW	CILW	CIVX	CJNQ	CKMO	CLMO	CMNP	CNPX	HIJL	HIMP
BLPX	BOPQ	CHIV	CJLW	CHVX	CILX	CIWX	CJNV	CKMP	CLMP	CMNQ	CNQV	HIJM	HIMQ
BLQV	BOPV	CHIW	CHLX	CHWX	CIMN	CJKL	CJNW	CKMQ	CLMQ	CMNV	CNQW	HIJN	HIMV
BLQW	BOPW	CHIX	CHMN	CIJK	CIMO	CJKM	CJNX	CKMV	CLMV	CMNW	CNQX	HIJO	HIMW
BLQX	BOPX	CHJK	CHMO	CIJL	CIMP	CJKN	CJOP	CKMW	CLMW	CMNX	CNVW	HIJP	HIMX
BLVW	BOQV	CHJL	CHMP	CIJM	CIMQ	CJKO	CJOQ	CKMX	CLMX	CMOP	CNVX	HIJQ	HINO
BLVX	BOQW	CHJM	CHMQ	CIJN	CIMV	CJKP	CJOV	CKNO	CLNO	CMOQ	CNWX	HIJV	HINP
BLWX	BOQX	CHJN	CHMV	CIJO	CIMW	CJKQ	CJOW	CKNP	CLNP	CMOV	COPQ	HIJW	HINQ
BMNO	BOVW	CHJO	CHMW	CIJP	CIMX	CJKV	CJOX	CKNQ	CLNQ	CMOW	COPV	HIJX	HINV
BMNP	BOVX	CHJP	CHMX	CIJQ	CINO	CJKW	CJPQ	CKNV	CLNV	CMOX	COPW	HIKL	HINW
BMNQ	BOWX	CHJQ	CHNO	CIJV	CINP	CJKX	CJPV	CKNW	CLNW	CMPQ	COPX	HIKM	HINX
BMNV	BPQV	CHJV	CHNP	CIJW	CINQ	CJLM	CJPW	CKNX	CLNX	CMPV	CPQV	HIKN	HIOP
BMNW	BPQW	CHJW	CHNQ	CIJX	CINV	CJLN	CJPX	CKOP	CLOP	CMPW	CPQW	HIKO	HIOQ
BMNX	BPQX	CHJX	CHNV	CIKL	CINW	CJLO	CJQV	CKOQ	CLOQ	CMPX	CPQX	HIKP	HIOV
BNOP	BPVW	CHKL	CHNW	CIKM	CINX	CJLP	CJQW	CKOV	CLOV	CMQV	CPVW	HIKQ	HIOV

Marking codes for turtles:

4 scutes marked = 1,799 individual marks (continued from previous pages):

HIOX	HJMN	HKLM	HKPW	HLPW	HMWX	HPQX	IJMQ	IKLP	IKQW	ILQW	INOV	IPWX	JKOV
HIPQ	HJMO	HKLN	HKPX	HLPX	HNOP	HPVW	IJMV	IKLQ	IKQX	ILQX	INOW	IQVW	JKOW
HIPV	HJMP	HKLO	HKQV	HLQV	HNOQ	HPVX	IJMW	IKLV	IKVW	ILVW	INOX	IQVX	JKOX
HIPW	HJMQ	HKLP	HKQW	HLQW	HNOV	HPWX	IJMX	IKLW	IKVX	ILVX	INPQ	IQWX	JKPQ
HIPX	HJMV	HKLO	HKQX	HLQX	HNOW	HQVW	IJNO	IKLX	IKWX	ILWX	INPV	IVWX	JKPV
HIQV	HJMW	HKLV	HKVW	HLVW	HNOX	HQVX	IJNP	IKMN	ILMN	IMNO	INPW	JKLM	JKPW
HIQW	HJMX	HKLV	HKVX	HLVX	HNPQ	HQWX	IJNQ	IKMO	ILMO	IMNP	INPX	JKLN	JKPX
HIQX	HJNO	HKLV	HKWX	HLWX	HNPV	HVWX	IJNV	IKMP	ILMP	IMNQ	INQV	JKLO	JKQV
HIVW	HJNP	HKMN	HLMN	HMNO	HNPW	IJKL	IJNW	IKMQ	ILMQ	IMNV	INQW	JKLP	JKQW
HIVX	HJNQ	HKMO	HLMO	HMNP	HNPX	IJKM	IJNX	IKMV	ILMV	IMNW	INQX	JKLQ	JKQX
HIWX	HJNV	HKMP	HLMV	HMNQ	HNQV	IJKN	IJOP	IKMW	ILMW	IMNX	INVW	JKLV	JKVW
HJKL	HJNW	HKMQ	HLMQ	HMNV	HNQW	IJKO	IJOQ	IKMX	ILMX	IMOP	INVX	JKLW	JKVX
HJKM	HJNX	HKMV	HLMV	HMNW	HNQX	IJKP	IJOV	IKNO	ILNO	IMOQ	INWX	JKLX	JKWX
HJKN	HJOP	HKMW	HLMW	HMNX	HNVW	IJKQ	IJOW	IKNP	ILNP	IMOV	IOPQ	JKMN	JLMN
HJKO	HJOQ	HKMX	HLMX	HMOP	HNVX	IJKV	IJOX	IKNQ	ILNQ	IMOW	IOPV	JKMO	JLMO
HJKP	HJOV	HKNO	HLNO	HMOQ	HNWX	IJKW	IJPQ	IKNV	ILNV	IMOX	IOPW	JKMP	JLMP
HJKQ	HJOW	HKNP	HLNP	HMOV	HOPQ	IJKX	IJPV	IKNW	ILNW	IMPQ	IOPX	JKMQ	JLMQ
HJKV	HJOX	HKNQ	HLNQ	HMOW	HOPV	IJLM	IJPW	IKNX	ILNX	IMPV	IOQV	JKMV	JLMV
HJKW	HJPQ	HKNV	HLNV	HMOX	HOPW	IJLN	IJPX	IKOP	ILOP	IMPW	IOQW	JKMW	JLMW
HJKX	HJPV	HKNW	HLNW	HMPQ	HOPX	IJLO	IJQV	IKOQ	ILOQ	IMPX	IOQX	JKMX	JLMX
HJLM	HJPW	HKNX	HLNX	HMPV	HOQV	IJLP	IJQW	IKOV	ILOV	IMQV	IOVW	JKNO	JLNO
HJLN	HJPX	HKOP	HLOP	HMPW	HOQW	IJLQ	IJQX	IKOW	ILOW	IMQW	IOVX	JKNP	JLNP
HJLO	HJQV	HKOQ	HLOQ	HMPX	HOQX	IJLV	IJVW	IKOX	ILOX	IMQX	IOWX	JKNQ	JLNQ
HJLP	HJQW	HKOV	HLOV	HMQV	HOVW	IJLW	IJVX	IKPQ	ILPQ	IMVW	IPQV	JKNV	JLNV
HJLQ	HJQX	HKOW	HLOW	HMQW	HOVX	IJLX	IJWX	IKPV	ILPV	IMVX	IPQW	JKNW	JLNW
HJLV	HJVW	HKOX	HLOX	HMQX	HOWX	IJMN	IKLM	IKPW	ILPW	IMWX	IPQX	JKNX	JLNX
HJLW	HJVX	HKPQ	HLPQ	HMVW	HPQV	IJMO	IKLN	IKPX	ILPX	INOP	IPVW	JKOP	JLOP
HJLX	HJWX	HKPV	HLPV	HMVX	HPQW	IJMP	IKLO	IKQV	ILQV	INOQ	IPVX	JKOQ	JLOQ

Marking codes for turtles:

4 scutes marked = 1,799 individual marks (continued from previous pages):

JLOV	JMQV	JOVW	KLOV	KMQV	KOVW	LMQV	LOVW	MOPQ	NOVX
JLOW	JMQW	JOVX	KLOW	KMQW	KOVX	LMQW	LOVX	MOPV	NOWX
JLOX	JMQX	JOWX	KLOX	KMQX	KOWX	LMQX	LOWX	MOPW	NPQV
JLPQ	JMVW	JPQV	KLPQ	KMVW	KPQV	LMVW	LPQV	MOPX	NPQW
JLPV	JMVX	JPQW	KLPV	KMVX	KPQW	LMVX	LPQW	MOQV	NPQX
JLPW	JMWX	JPQX	KLPW	KMWX	KPQX	LMWX	LPQX	MOQW	NPVW
JLPX	JNOP	JPVW	KLPX	KNOP	KPVW	LNOP	LPVW	MOQX	NPVX
JLQV	JNOQ	JPVX	KLQV	KNOQ	KPVX	LNOQ	LPVX	MOVW	NPWX
JLQW	JNOV	JPWX	KLQW	KNOV	KPWX	LNOV	LPWX	MOVX	NQVW
JLQX	JNOW	JQVW	KLQX	KNOW	KQVW	LNOW	LQVW	MOWX	NQVX
JLVW	JNOX	JQVX	KLVW	KNOX	KQVX	LNOX	LQVX	MPQV	NQWX
JLVX	JNPQ	JQWX	KLVX	KNPQ	KQWX	LNPQ	LQWX	MPQW	NVWX
JLWX	JNPV	JVWX	KLWX	KNPV	KVWX	LNPV	LVWX	MPQX	OPQV
JMNO	JNPW	KLMN	KMNO	KNPW	LMNO	LNPW	MNOP	MPVW	OPQW
JMNP	JNPX	KLMO	KMNP	KNPX	LMNP	LNPX	MNOQ	MPVX	OPQX
JMNQ	JNQV	KLMP	KMNQ	KNQV	LMNQ	LNQV	MNOV	MPWX	OPVW
JMNV	JNQW	KLMQ	KMNV	KNQW	LMNV	LNQW	MNOW	MQVW	OPVX
JMNW	JNQX	KLMV	KMNW	KNQX	LMNW	LNQX	MNOX	MQVX	OPWX
JMNX	JNVW	KLMW	KMNX	KNVW	LMNX	LNVW	MNPQ	MQWX	OQVW
JMOP	JNVX	KLMX	KMOP	KNVX	LMOP	LNVX	MNPV	MVWX	OQVX
JMOQ	JNWX	KLNO	KMOQ	KNWX	LMOQ	LNWX	MNPW	NOPQ	OQWX
JMOV	JOPQ	KLNP	KMOV	KOPQ	LMOV	LOPQ	MNPX	NOPV	OVWX
JMOW	JOPV	KLNQ	KMOW	KOPV	LMOW	LOPV	MNQV	NOPW	PQVW
JMOX	JOPW	KLNV	KMOX	KOPW	LMOX	LOPW	MNQW	NOPX	PQVX
JMPQ	JOPX	KLNW	KMPQ	KOPX	LMPQ	LOPX	MNQX	NOQV	PQWX
JMPV	JOQV	KLNX	KMPV	KOQV	LMPV	LOQV	MNVW	NOQW	PVWX
JMPW	JOQW	KLOP	KMPW	KOQW	LMPW	LOQW	MNVX	NOQX	QVWX
JMPX	JOQX	KLOQ	KMPX	KOQX	LMPX	LOQX	MNWX	NOVW	

HERPETOFAUNA PHOTO VOUCHERING

The following is adapted from a chapter in the forthcoming PARC herpetofauna Inventory and Monitoring Techniques book, edited by Gabrielle Grater and Kurt Bullmann of the Savanna River Ecology Lab. The photo vouchering chapter was compiled by John Jensen with the Georgia Department of Natural Resources.

The purpose of photo vouchering is to provide evidence that a species occurs in a given area. This is necessary to ensure confidence in reported records and to ensure that the sightings are accurate. For some species, photo records may not be adequate for vouchers. In these situations, a voucher specimen may be needed. Iowa's amphibians are distinct enough from each other that they can be vouchered with high quality photography, with one exception. The gray treefrogs (*Hyla versicolor* and *H. chrysoscelis*) can only be distinguished by DNA chromosomal analysis or by the sound of their calls with *H. chrysoscelis* having a call with a higher pitch. It is recommended that if vouchering of these species is needed, a recording be made of their calls. It should be possible to document all of Iowa's reptiles with photographs if the objective is only to document the occurrence of a species at a given site.

DEFINITIONS:

Anal plate - The wide scale anterior to the anus.

Dorsal - Of or involving the back.

Dorsolateral - Of or involving both the back and the side.

Keeled - A ridge down the center of the scale, resulting in a rough or dull appearance.

Lateral - Of or involving the side.

Ventral - Of or involving the abdomen.

BASIC GUIDELINES:

1. Include a scale in the photo (or at least some of the photos of the same individual) such as a ruler, coin, pencil, or human hand.
2. Photograph animal as soon after capture as possible - some amphibians can change color when placed into containers.
3. It may be easier or necessary to place a frog or salamander into a Ziploc baggie. This will help immobilize the animal. The photo can be made through the clear plastic of the baggie. Be sure to include a small amount of water in the baggie so the amphibian does not desiccate and do NOT leave the animal in the baggie for more than a few minutes at most.

A whole body shot should be taken of each individual to be photo vouchered. This first, standard photo should be at a dorsal angle (looking at the back of the individual). In addition to this photo, several additional photos will be needed depending on the species. Most field guides describe the characteristics that will be seen (or absent) from each of the photo angles. If the field guide lists a defining characteristic that is not accounted for in the lists for each group of animals below, please also photograph the presence or absence of that characteristic.

SALAMANDERS:

For the 5 salamander species which occur in Iowa, all should have an additional photo taken which clearly shows the whole body from a dorsolateral angle. For 4 of the 5 species, clear, high definition photos from those 2 angles should be sufficient for identification. The mudpuppy (*Necturus maculosus*), however, should also have the belly photographed.

ANURANS:

Frogs

The following list of 6 additional photos should be taken to voucher the *Rana* species listed by the photo angle. *Rana* of unknown species or those found outside of their known range should have photos taken from all of the following angles:

1. Dorsal showing the full extent of the dorsolateral ridges (*R. blairi*, *R. pipiens*, *R. utricularia*)
2. Dorsolateral (All *Rana* species)
3. Head - dorsal (*R. catesbeiana*)
4. Head - lateral (*R. pipiens*, *R. sphenoccephala*)
5. Toe webbing (*R. catesbeiana*, *R. clamitans*)
6. Ventral or belly (*R. palustris*)

* Suspected wood frogs (*R. sylvatica*) should have all of the above photos taken.

Treefrogs

The following list of additional photos should be taken to voucher treefrog species listed by each angle. Treefrog species have toe-pads. If you are unsure of which treefrog species is in hand, please take photos of all the following angles:

1. Back of thigh (*Acris crepitans*, *Hyla chrysoscelis*, *H. versicolor*)
2. Dorsolateral (*H. chrysoscelis*, *H. versicolor*, *Pseudacris crucifer*, *P. triseriata*)
3. Head - dorsal (*A. crepitans*)
4. Toe webbing (*A. crepitans*)

* Remember that the only way to distinguish between *H. chrysoscelis* and *H. versicolor* in the field is by the sound of their calls. If it is necessary to voucher these species from a particular site, a recording of their calls must be made.

Toads

The following list of additional photos should be taken for each of Iowa's 4 toad species in order to voucher the species presence for a given site.

1. Head - dorsal
2. Dorsolateral
3. Number of warts occurring per spot (the photo should be a close-up of several spots where the number of warts can be clearly counted)
4. Ventral

Spadefoot toad

There is only one species of spadefoot toad known to occur in Iowa. In addition to the lateral photo for this species, additional photos showing the eyes and/or the spade on the back foot would clearly voucher this species.

SNAKES:

Nonvenomous Snakes

For all nonvenomous snakes, a dorsolateral photo should be taken in addition to that of the lateral angle. It is also suggested to photograph both the ventral side and the anal plate of many of the species in Iowa. These 4 photos should be sufficient to document the majority of the nonvenomous species with a few exceptions:

1. Additional dorsolateral photo, close enough to be able to count the rows of scales with striping above the ventral scales (*Thamnophis* sp.)
2. Head - dorsal (*Virginia valeriae*)
3. Head - lateral (*Heterodon* sp.)
4. Photograph showing the keeled or lack of keeled scales (*Ophedrys aestivus* & *O. vernalis*)

Venomous Snakes

It is not recommended to handle a venomous snake without the proper training on the appropriate handling techniques. Take the best photo possible without endangering yourself. The dorsal pattern on Iowa's 4 venomous snakes is distinct enough to allow identification. This picture can be taken without touching the animal. Remember to keep an appropriate distance from the snake at all times.

LIZARDS:

Iowa has 5 lizards. Photographs of the dorsolateral angle should be taken of each of them in addition to the dorsal photo. In addition, the slender glass lizard (*Ophisaurus attenuatus*) should be photographed from the lateral angle, and the 3 skink species (*Eumeces fasciatus*, *E. obsoletus*, and *E. septentrionalis*) should be documented from the lateral side of the head, specifically focusing on the ear area, and the lateral side of the tail.

TURTLES:

All of Iowa's turtles should have photographs of the dorsolateral side and the ventral side (also known as the plastron in turtles) taken in addition to the dorsal photograph. Other suggested photos include:

1. Head - dorsal (*Graptemys geographica*, & *G. pseudogeographica*)
2. Head - lateral (*Clemmys insculpta*, *Emydoidea blandingi*, *Kinosternon flavescens*, *Sternotherus odoratus*, & *Trachemys scripta*)
3. Leading (neck) edge of carapace (*Apalone mutica* & *A. spinifera*)
4. Nostrils (*A. mutica* & *A. spinifera*)