

Supplementary Data 1—Survey of skeletal specimens and elements from the 20 primary quarry squares plus part of Locc into the UAMN (University of Alaska Museum of the North) Earth Science Collections.

Specimen No.	Skeletal Element	Length(cm)	Tooth Marks ²	Trample Marks	Abrasion Index ¹
AK-232-V-001	part. Caudal rib?		2.9 N	N	H
AK-232-V-002	IND bone frag.		3.2 N	N	M
AK-232-V-003	OT		1.6 N	N	N
AK-232-V-004	ilial ant. Pr. Frag.		5.8 N	N	M-H
AK-232-V-005	IND bone frag.		3 N	N	M
AK-232-V-006	OT		3.1 N	N	L
AK-232-V-007	prox. Rib frag.		3 N	N	N
AK-232-V-008	IND bone frag.		2.5 N	N	N
AK-232-V-009	HADRO TOOTH		1.7 N	N	N
AK-232-V-010	IND bone frag.	3.0 X3.0	N	N	N
AK-232-V-011	rt. man,ph1,dll		2.9 N	N	M
AK-232-V-012	pd.ungual,III	3.0x4.0	N	N	L
AK-232-V-013	part.Neural spine		3.2 N	N	L
AK-232-V-014	Ant.dorsal vert.		7.5 N	N	L
AK-232-V-015	Rt fibula frag.		3.7 N	N	L
AK-232-V-016	IND bone frag.		3 N	N	N
AK-232-V-017	HADRO TOOTH		1.2 N	N	N
AK-232-V-018	rt.man.ph2,dll		1.8 N	N	N
AK-232-V-019	OT		3.8 N	N	N

at #AK-83-V (N = 3879) that were accessioned

Weathering ¹	Fracture Type ¹	Articulation	NOTES
S	N	N	Allochthonous-- taphonomically signif.?
S	N	N	Possible skull fragment
N	T	N	Incomplete
S	T	N	Taphonomically significant-abraded
P	T	N	
S	T	N	Incomplete
S	T	N	
S	T	N	
N	T	N	Crown with small serrations on lateral margins
N	T	N	
M	N	N	
S	T	N	Left distal wing missing
S	T	N	Distal half of spine partial centrum; post. f spine---proximal caudal position
S	T	N	Zygopopyses; lat. distorted by load. Distal end fragment
S	T	N	
S	T	N	
S	T	N	Crown with facet
N	N	N	
N	T	N	Incomplete

AK-232-V-020	post.Lumbar proc.	3 N	N	N
AK-232-V-021	vertebral lat.proc.	3.8 N	N	N
AK-232-V-022	neural arch base	1.6 N	N	N
AK-232-V-023	Post. Caudal cent.	1.8 N	N	N
AK-232-V-024	OT	2.8 N	N	N
AK-232-V-025	OT	2.1 N	N	N
AK-232-V-026	HADRO TOOTH	1.4 N	N	N
AK-232-V-027	neural arch roof	2.4 N	N	L
AK-232-V-028	IND bone frag.	2 N	N	H
AK-232-V-029	nonspec skull frag	4 N	N	L
AK-232-V-030	dist. Rib fragment	3.8 N	N	N
AK-232-V-031	dist.Rib fragment	2.1 N	N	L
AK-232-V-032	prox. Rib frag.	5.5 N	N	N
AK-232-V-033	part. Neural arch	3.5 N	N	N
AK-232-V-034	caudal neural spn	4.8 N	N	N
AK-232-V-035	caudal neural spn 4.5 & 3.0	N	N	N

N	N	N	Very well preserved prox. Sutural surface Freshly broken surfaces--pretty good suture surface
N	T	N	Left side; fairly fresh sutural surface
S	T	N	Bases of neural arch in place--fused
S	N	N	Incomplete
N	T	N	Incomplete
N	T	N	Slightly faceted crown
S	T	N	Neural canal surface present
M	N	N	Taphonomically significant-abraded
N	T	N	Possibly a quadrate
S	T	N	
N	T	N	Possibly very young individual
N	T	N	Near base of rib head
S-P	T	N	Zygopophysis present
S	T	N	Partial, most of spine above zygopophs.
S	T	N	Distal third of ant. caudal + lower non-match fragment

AK-232-V-036	Post. Caud. Cent.	0.9 N	N	N
AK-232-V-037	IND bone frag.	4.5 N	N	H
AK-232-V-038	OT	2.3 N	N	L
AK-232-V-039	IND bone frag.	3.5 N	N	H
AK-232-V-040	caudal neural spn	1.7 N	N	L
AK-232-V-041	post. Caudal cent.	1.8 N	N	N
AK-232-V-042	pedal ungual, dIII	4.2 N	N	L
AK-232-V-043	Rib fragment	7 N	N	?
AK-232-V-044	part. Neural spine	3.5 N	N	L
AK-232-V-045	part. Neural arch	3.5 N	N	N
AK-232-V-046	lat.process-vert.	3.1 N	N	N
AK-232-V-047	IND bone frag.	3.2 N	N	M
AK-232-V-048	IND bone frag.	3.5 N	N	L
AK-232-V-049	Post. Caudal centrum	3.8 N	N	N
AK-232-V-050	Post. Caudal centrum	3 N	N	N

N	T	N	Bases of neural arch in place--fused	place,fused; near end of tail or early juvenile
H	N	N	Allochthonous--taphonomically signif.?	
S	T	N	Incomplete	
H	T	N	Allochthonous--taphonomically signif.?	
S	T	N	Distal tip of post caudal, or very young individ.	
N	N	N	Bases of neural arch in place--fused-near end of tail?	
S	T	N	rt wing missing	
N	T	N	Lots of matrix adhering to surface	
S	T	N	Ant. Caudal vertebra, distal end of spine	
N	T	N	lft. side of arch;	
N	T	N	post. Dorsal or	
S	T	N	post. Sacral vertebra	
M	T	N	Rt. side of post. Lumbar vertebra	
N	N	N	Bases of neural arch not fused	
N	N	N	Bases of neural arch not fused	

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AK-232-V-051	Ungual,digit III	3.8 N	N	N
AK-232-V-052	dist. Rib fragment	1.5 N	N	N
AK-232-V-053	HADRO TOOTH			
AK-232-V-054	Post.Caudal centr	1.8 N	N	N
AK-232-V-055	dist.end,ft.Fibula	4.8 N	N	H
AK-232-V-056	lft Metacarpal II	2.9 N	N	L
AK-232-V-057	Post.Caudal centrum	3 N	N	L
AK-232-V-058	IND bone frag.	2.9 N	N	L
AK-232-V-059	IND bone frag.	3.5 N	N	L
AK-232-V-060	IND bone frag.	1.5 N	N	H
AK-232-V-061	Post.Caudal centr	2.8 N	N	N
AK-232-V-062	OT	3.5 N	N	N
AK-232-V-063	rt.Manus ph1,dIV	3 N	N	L
AK-232-V-064	lft Manus ph2,dII	2 N	N	N
AK-232-V-065	part. Caudal cent.	5.4 N	N	L
AK-232-V-066	OT	3.3 N	N	N
AK-232-V-067	frag.Neural spine	3 N	N	L
AK-232-V-068	Caudal centrum	3.4 P?	N	N
AK-232-V-069	Jaw fragment	3.3 N	N	N

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N	N	N	Excellent margins and preservation
N	N	N	
			RNS
N	N	N	Bases of neural arch fused
S	N	N	Taphonomically significant-abraded
S	N	N	Proximal third with articular end Hardened matrix adhering to specimen; ant. dorsal quad missing
S	T	N	
S	T	N	
S	T	N	
H	T	N	Taphonomically significant-abraded
N	T	N	Bases of neural arch unfused to partially fused
N	T	N	
S	T	N	Lost margins due to excavation
N	N	N	
M-P	T	N	Bases not fused; mid caudal
N	T	N	Incomplete
S	T	N	Distal half of spine
N	N	N	Posterior caudal; bases unfused
N	T	N	Maxilla? Base of tooth rows

AK-232-V-070	Pedal ph2or3,dIII	4.7 N	N	L
AK-232-V-071	Post.Caudal centr	3.2 N	N	N
AK-232-V-072	HADRO TOOTH	1.4 N	N	N
AK-232-V-073	Dromaeos.TOOTH	1.2 N	N	N
AK-232-V-074	part. Neural arch	3 N	N	N
AK-232-V-075	Post.Caudal centr	3 N	N	N
AK-232-V-076	part. Neural spine	3.9 N	N	N
AK-232-V-077	part. Neural spine	3.7 N	N	S
AK-232-V-078	Rib fragment?	4.6 N	N	N
AK-232-V-079	Neural arch frag.	1.4 N	N	N
AK-232-V-080	IND bone frag.	2.7 N	N	N
AK-232-V-081	Rib fragment	3.4 N	N	L
AK-232-V-082	part. Rib head	2.9 N	N	N
AK-232-V-083	IND bone frag.	2.6 N	N	N
AK-232-V-084	part. Neural spine	1.8 N	N	N
AK-232-V-085	part. Neural spine	2 N	N	N
AK-232-V-086	IND bone frag.	2.2 N	N	N
AK-232-V-087	Neural arch base 2..0	N	N	N
AK-232-V-088	IND bone frag.	2 N	N	N

M	T	N	Margin loss due to weathering and excavation
N	N	N	Bases fused
N	T	N	Unfaceted crown; no marginal denticles
N	T	N	Broken fragment with partial carina
N	T	N	Right side, unfused base; mid caudal
N	T	N	Margin loss due to excavation
N	T	N	Distal part; anterior caudal
N	T	N	Distal part; anterior caudal
N	T	N	Distal part; anterior caudal
N	T	N	Just above base
N	T	N	Proximal near base of head
N	T	N	Margin loss due to excavation
N	T	N	Caudal?
S	T	N	Proximal with one zygopophysis; caudal
N	T	N	
N	T	N	Posterior lumbar?
N	T	N	

AK-232-V-089	Rib fragment	2.1 N	N	N
AK-232-V-090	rt. Metacarpal II	9.3 N	N	N
AK-232-V-091	Tyrranos. Tooth	2.8 N	N	N
AK-233-V-001	Caudal Centrum	2.1 N	N	N
AK-233-V-002	Caudal Chevron	3.1 N	N	N
AK-233-V-003	Caudal Centrum	3.7 N	N	N
AK-233-V-004	Thoracic Rib	16.1 N	N	L
AK-233-V-005	Neural spine base	3 N	N	M
AK-233-V-006	Vertebra frag.	2 N	N	L
AK-233-V-007	Lft. Surangular	6.5 N	N	N
AK-233-V-008	Caudal Centrum	3.4 N	N	N
AK-233-V-009	HADRO TOOTH	2.7 N	N	N
AK-233-V-010	Caudal Chevron	5.1	N	N
AK-233-V-011	Caudal Centrum	3.7 P?	N	N
AK-233-V-012	part. Calcaneum	4 N	N	N
AK-233-V-013	Caudal Vertebra	25.5 N	N	L

N	T	N	Proximal near base of head
N	T	N	Excellent margins and preservation
N	T	N	Highly fragmented from premaxilla
N	T	N	Posterior caudal; bases fused
S	T	N	Distal half;
S	T	N	Mid caudal; bases not fused
M	T	N	Most of rib just below head, tubercle lost
S	T	N	Sacral? Post zygopophyses present
S	?	N	Single zygopophysis present
M	T	N	Two thirds present, three pieces
S	T	N	Mid caudal; bases not fused
N	T	N	Crown & root; denticles; no facet
S	T	N	Mid and distal portion
N	T	N	Mid caudal; bases not fused
S	?	N	
S	T	N	Anterior caudal; almost complete

AK-233-V-014	Man.ph.2,dV	2.7 N	N	N
AK-233-V-015	Mandible fragment	2.3 N	N	N
AK-233-V-016	Metacarpal II frag.	2.6 N	N	L
AK-233-V-017	Rt.Radius end	5.1 N	N	L
AK-233-V-018	Part lft.Dorsal Rib	7.7 N	N	N
AK-233-V-019	Rib fragment	3.5 N	N	L
AK-233-V-020	Pedal ph2,dII	4 N	N	N
AK-233-V-021	Pedal ph2or3,dIII	4.6 N	N	L
AK-233-V-022	Lft. Radius	19.9 N	N	N
AK-233-V-023	Neural spine frag.	3.3 N	N	L
AK-233-V-024	Rib fragment			
AK-233-V-025	Neural spine frag.	4 N	N	L
AK-233-V-026	IND bone frag.	3.6 N	N	L
AK-233-V-027	Centrum			
AK-233-V-028	Rib fragment	2.7 N	N	N
AK-233-V-029	Ungual fragment	2.7 N	N	L
AK-233-V-030	Phalanx fragment	2.9 N	N	N
AK-233-V-031	Caudal Centrum	3.3 N	N	N
AK-233-V-032	Rib fragment	3.8 N	N	N
AK-233-V-033	Post.Caudal Centr	2 N	N	N
AK-233-V-034	Rib fragment	2.7 N	N	N
AK-233-V-035	IND bone frag.			
AK-233-V-036	Caudal Centrum	4.3 N	N	L

N	N	N	Sectioned for study
N	T	N	Tooth rows Proximal end of lf-- see 83V-
S	T	N	701,709,4.9-13
M	T	N	Distal end
S	T	N	Proximal fragment, two pieces
M	T	N	
S	N	N	
S	N	N	Could be ph3. NC; broken into four pieces-- reassembled
S-P	T	N	Sacral? Position
M	T	N	RNS
M	T	N	Sacral or dorsal position
M	?	N	
S	T	N	RNS
S	T	N	Mid shaft Proximal articular end
N	?	N	Proximal articular end
N	N	N	Mid caudal; bases not fused
N	T	N	Distal end of left rib Distal position;
S	N	N	bases fused
N	T	N	Distal RNS
M	N	N	Mid caudal; bases not fused

AK-233-V-037	Caudal Centrum		4.1 N	N	H
AK-233-V-038	Caudal Centrum		3.9 N		H
AK-233-V-039	Ungual dII		2.3 N	N	L
AK-233-V-040	Rt. Ped.ph2,dIV		2.7 N	N	M
AK-233-V-041	Lft.partial Dentary		11 N	N	L
AK-233-V-042	Rib fragment		5.7 N	N	N
AK-233-V-043	Rt. Metatarsal II		5.7 N	N	M
AK-233-V-044	Rt. Radius frag.		7.8 N	N	M
AK-233-V-045	IND bone frag.				
AK-233-V-046	Rt. Rib fragment		3.3 N	N	N
AK-233-V-047	IND bone frag.				
AK-233-V-048	IND bone frag.		6.3	N	N
AK-233-V-049	Pedal ph1,dIII	3.5 x 5.5			
AK-233-V-050	Post.Caudal Centr		2.5 N	N	N
AK-233-V-051	Lft. Metatarsal II		6.5 Y	N	L
AK-233-V-052	Caudal Centrum		1.7 N	N	N
AK-233-V-053	Mid Caudal Centr		3.9 N	N	M
AK-233-V-054	TROODON TOOTH				
AK-233-V-055	Rt. Fibula--broken	25 +	N	N	L
AK-233-V-056	Tibia fragments	3--8+	N	N	N

M	N	N	Mid caudal; bases not fused;allochthonou s?
M	N	N	Mid caudal; bases not fused;allochthonou s?
S	T	N	Lft. Pedal? Both wings missing
S	N	N	CouLd be ph3
S	T	N	Post. Portion; assoc. tooth crown & root, facet
N	T	N	Rt.rib, proximal piece
S	T	N	Distal end
S	T	N	Distal end
N	T	N	RNS Distal end
S	T	N	RNS
N	N	N	On Exhibit ; right pes Distal position; bases fused
S	T	N	Five possible tooth marks near distal end
S	N	N	Distal position; bases fused
M	N	N	Distal anterior- prox. mid; neural & LP bases unfused See tooth study sheet
S	T	N	Distal third
N	T	N	Unassembled-- loose

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AK-233-V-057	Lft. Metatarsal II		13.5 N	N	N
AK-233-V-058	Ant.Caudal Centr.		4.8 N	N	L
AK-233-V-059	Caudal Centrum		2.7 N	N	N
AK-233-V-060	Cervical Centrum		2.7 N	N	M
AK-233-V-061	IND bone frag.				
AK-233-V-062	IND bone frag.				
AK-233-V-063	OT		3.5 N	N	N
AK-233-V-064	Caudal Centrum		2.8 N	N	N
AK-233-V-065	Caudal Centrum		3.3 N	N	N
AK-233-V-066	IND bone frag.				
AK-233-V-067	Metcarpal				
AK-233-V-068	Rt.Pedal ph2,dIV		2.8 N	N	N
AK-233-V-069	Lft.Metatarsal III		15.5 N	N	N
AK-233-V-070	Femur	36?			
AK-233-V-071	Left Tibia		38		
AK-233-V-072	Right Femur		40		

N	T	N	Mostly assembled, need putty filling	
S	N	N	Distal ant.-prox. Mid; LP and neural bases unfused Mid posterior caudal position;bases unfused	
N	N	N	Anterior face poorly preserved; allochthonous?	
H	T	N	RNS RNS	
N	T	N	12 fragments, largest given Mid posterior caudal position;bases unfused	
S	N	N	Mid posterior caudal;bases unfused; Vinac covered	
N	N	N	RNS On Loan--exhibit Could be ph 3 or 4; excellent preservation	
S	T	N	Almost complete	
			In jacket--missing In jacket In jacket	issing; length estimated from map

AK-233-V-073	Caud. Neural Arch	10.6 N	N	L
AK-233-V-074	Radius fragment	5 N	N	L
AK-233-V-075	Caudal Neural sp.	4.3 N	N	N
AK-233-V-076	Part. Lft. Dentary	16.2 N	N	L
AK-233-V-077	Part. Rt. Rib	8.5 N	N	N
AK-233-V-078	Left Dentary frag.	5.5 N	N	N
AK-233-V-079	Right Ulna	22.4 N	N	N
AK-233-V-080	Humerus?			
AK-233-V-081	Metatarsal?			
AK-233-V-082	Femur			
AK-233-V-083	Rib fragment			
AK-233-V-084	Rib fragment			
AK-233-V-085	Femur?			
AK-233-V-086	Metacarpal			
AK-233-V-087	Metacarpal			
AK-233-V-088	Metatarsal			
AK-233-V-089	Humerus			
AK-233-V-090	Humerus			
AK-233-V-091	Metatarsal			
AK-233-92 TO 206				
SUBSEQUENT				
SALVAGE				
WITHOUT MAPS				
AK-233-V-92	OT	8.3 N	N	N

N	T	N	Ant. Caudal or Posterior sacral; neural spine missing
S	T	N	Proximal end of lf-- see 83V- 701,709,4.9-13
S	T	N	Base of neural spine with zygopophyses
S	T	N	Anterior 2/3rds;piece with more tooth rows
N	T	N	Proximal just below head, thoracic
S	T	N	Anterior with a few tooth row bases
S	T	N	Almost complete RNS RNS RNS RNS RNS RNS RNS RNS RNS RNS RNS RNS
N	T	N	In matrix

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AK-233-V-93	Metatarsal II		5.6 N	N	N
Ak-233-V-94	Metatarsal II?		4.6 N	N	N
Ak-233-V-95	Radius fragment		3.7 N	N	M
Ak-233-V-96	Ceratopsid Tooth?				
Ak-233-V-97	Post.Caudal Centr		2.6 N	N	N
Ak-233-V-98	HADRO TOOTH		2.1 N	N	L
Ak-233-V-99	Rt.Pedal ph2,dII		2.5 N	N	L
Ak-233-V-100	Cerv.? Zygopoph.		1.9 N	N	L
Ak-233-V-101	Caudal Centrum		6.1 N	N	H
Ak-233-V-102	Caudal Centrum		4.6 N	N	M
Ak-233-V-103	Caudal Centrum		4.9 N	N	H
Ak-233-V-104	Caudal Centrum		3.9 N	N	M
Ak-233-V-105	Rib fragments	2.9 & 1.9	N	N	N
Ak-233-V-106	OT		1.9 N	N	N
Ak-233-V-107	IND bone frag.		2.3 N	N	L
Ak-233-V-108	Chevron fragment		3.2 N	N	L
Ak-233-V-109	HADRO TOOTH				

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S	T	N	Distal end
N	T	N	Distal end
			Distal end; some evidence of abrasion due to excavation
S	T	N	
			RNS
N	N	N	Distal; bases fused
			Crown & piece of root; no denticles or facet
N	T	N	Partial
S	T	N	Isolated & broken
			Distal-mid to prox.posterior; margins degraded-tapho sig.
H	T	N	Mid-prox.mid; rib and neural bases not fused
M	N	N	
			Mid-dist.mid; rib and neural bases not fused; alloch.?
			Dist. Mid-prox.post; bases not fused
M	N	N	
S	T	N	
S	T	N	Three fragments
S	T	N	
			NC, cast, not returned

Ak-233-V-110	Post.Caudal Centr	1.3 N	N	N
Ak-233-V-111	Caudal Spine base	3.1 N	N	L
Ak-233-V-112	Caudal Centrum	3.5 N	N	N
Ak-233-V-113	IND bone frag.	3.1 N	N	L
Ak-233-V-114	Neural arch base	1.6 N	N	N
Ak-233-V-115	Rib fragment	3.3 N	N	N
Ak-233-V-116	Post.Caudal Centr	2.3 N	N	N
Ak-233-V-117	Caud.Neural Arch	1.9 N	N	N
Ak-233-V-118	Caudal Centrum	2.2 N	N	N
Ak-233-V-119	Pedal unguual,dIII	3.5 N	N	N
Ak-233-V-120	IND bone frag.	1.8 N	N	M
Ak-233-V-121	Neural spine base	1.8 N	N	N
Ak-233-V-122	Post.Caudal Centr	2.5 N	N	N
Ak-233-V-123	IND bone frag.	2.5 N	N	H-M
Ak-233-V-124	Neural spine frag.	2.2 N	N	N
Ak-233-V-125	Rib fragment	2.8 N	N	N
Ak-233-V-126	Neural spine frag.	2.8 N	N	L

N	N	N	Extreme distal position; bases fused	
S	T	N	Neural base with both zygapophyses	
N	N	N	Mid caudal; bases not fused	
M	T	N		
S	T	N	Partial base, unfused	
S	T	N	Mid rib	
N	N	N	Distal; bases fused	
S	T	N	Rt. side with prozygapophysis	
N	N	N	Mid-distal post; bases fused	
N	T	N	Most of distal margin missing, position questionable	
S	T	N	Abraded-- taphonomically significant?	
N	T	N	Caudal?	
S	N	N	Mid-distal; bases unfused	bases unfused
H	T	N	Reworked? Taphonomically significant	
S	T	N	Caudal?Zygapoph ysis present	
S	T	N	Mid rib; dorsal?	
H	T	N		

Ak-233-V-127	Ped.ph2or3,dIV Post.Caudal		1.8 N	N	L
Ak-233-V-128	Centrum		1.9 N	N	N
Ak-233-V-129	Rib fragment		2.8 N	N	N
Ak-233-V-130	Neural arch frags.	1.8 & 1.7	N	N	S
Ak-233-V-131	Caudal rib or proc.		2.4 N	N	M
Ak-233-V-132	Rib fragments	4.0 longest	N	N	L
Ak-233-V-133	Neural arch frag		2.4 N	N	N
Ak-233-V-134	Chevron fragment		1.8 N	N	L
Ak-233-V-135	Neural spine frag.		3.1 N	N	N
Ak-233-V-136	Rt. man.,ph2,dII		2.4 N	N	N
Ak-233-V-137	Caud.neural spine		1.9 N	N	N
Ak-233-V-138	Zygopoph. Frag.		1.9 N	N	N
Ak-233-V-139	Squamosal frag.		3.5 N	N	N
Ak-233-V-140	Centrum fragments		2.5 N	N	H
Ak-233-V-141	Neural arch frag.		2.2 N	N	L
Ak-233-V-142	Post.Caudal Centr		1.6 N	N	N
Ak-233-V-143	Post.Caudal Centr		2.8 N	N	N
Ak-233-V-144	Neural spine base		3.3 N	N	N

S	T	N	40% of element; could be ph3 or 4	
S	N	N	Distal; bases fused	
S	T	N		
M	T	N	Arch base and zygopophysis	
M	N	N	Unfused base and process	
S	T	N	One is rib fragment, others?	
S	T	N	Part of one side; part of canal present	
M	T	N	Proximal--articular base	
S	T	N	Near base	
S	N	N	Excellent preservation	
N	T	N	Base of neural spine with zygopophyses	
S	T	N		
N	T	N		
M	T	N	Anterior portion Allochthonous-- reworked fragments?	
M	T	N	Unfused base	
S	N	N	Extreme distal position; bases fused	
S	N	N	Distal, bases unfused	one margin missing
S	T	N		

Ak-233-V-145	IND bone frag.		2.6 N	N	H
Ak-233-V-146	Neural arch base		2.9 N	N	L
Ak-233-V-147	Rib fragment		6.4 N	N	N
Ak-233-V-148	Rib fragment		3.9 N	N	M
Ak-233-V-149	Cervical Centrum		3.7 N	N	M
Ak-233-V-150	Pedal, ph2, dIV		2.7 N	N	N
Ak-233-V-151	Neural spine base		2.7 N	N	S
Ak-233-V-152	Cervical Centrum		3.6 N	N	M
Ak-233-V-153	Centrum fragment		2.8 N	N	H
Ak-233-V-154	Post.Caudal Centr		3.3 N	N	L
Ak-233-V-155	Post.Caudal Centrum		3.7 N	N	N
Ak-233-V-156	Lft. Exoccipital	6.6 compl.	N	N	N
Ak-233-V-157	Maxil. Fragment		3.7 N	N	N
Ak-233-V-158	Rt.ped.ph1, dIV		2.5 N	N	N
Ak-233-V-159	Post.Caudal Centr		2.3 N	N	L
Ak-233-V-160	IND bone frag.		3.9 N	N	N
Ak-233-V-161	OT	2.5 & 2.1	N	N	N
Ak-233-V-162	lft. Partial Tibia		16.3 N	N	N
Ak-233-V-163	Rib fragments	1.9 & 2.3	N	N	N

H	T	N	Highly abraded-- taphonomically signif.
M	T	N	Unfused arch base
S	S,T	N	Proximal
S	T	N	End shows abrasion
H	T	N	Position questionable; allochthonous?
S	T	N	Could be 3 or 4 4; only 1/3 present Both post zygopophyses
M	T	N	present;
H	T	N	Posterior half Most of centrum missing---highly abraded, taph.
H	T	N	Signif.
S	N	N	Prox.posterior; bases not fused
N	N	N	Prox.posterior; bases not fused
S	N	N	Two pieces, ventral base & dorsal arch
N	T	N	Could be dentary
S	T	N	Exterior-lateral half present
S	T	N	Distal position; bases unfused
N	T	N	
N	T	N	Two incomplete specimens
S	T	N	Distal 1/3 present
S	T	N	

Ak-233-V-164	IND bone frags.	1.5 & 3.0	N	N	H
Ak-233-V-165	Lft. Postorbital frg		4 N	N	N
Ak-233-V-166	IND bone frags.		4.9 N	N	N
Ak-233-V-167	Caudal Centrum		3.1 N	N	L
Ak-233-V-168	MATRIX				
Ak-233-V-169	IND bone frag.		3.9 N	N	H
Ak-233-V-170	Rib fragments		N	N	N
Ak-233-V-171	HADRO TOOTH		2.1 N	N	N
Ak-233-V-172	IND bone frag.		3.2 N	N	N
Ak-233-V-173	IND bone frags.	2.0 largest	N	N	N
Ak-233-V-174	Lft Lacrimal frag.		3 N	N	M
Ak-233-V-175	Rib fragment		4.3 N	N	N
Ak-233-V-176	IND bone frag.		4.1 N	N	L
Ak-233-V-177	Rib fragments	2.3 largest	N	N	N
Ak-233-V-178	Rib fragments		3.1 N	N	N
Ak-233-V-179	IND bone frag.		1.7 N	N	N
Ak-233-V-180	Rib fragment		2.9 N	N	L
Ak-233-V-181	Rt. Manus,ph2,dll		1.8 N	N	N
Ak-233-V-182	IND bone frag.		3.5 N	N	N
Ak-233-V-183	Part. Ant. Dors? Vert.		3.3 N	N	N
Ak-233-V-184	Lft. Ped. Ph2, dIV		3 N	N	L

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H	N	N	Reworked fragments?
N	T	N	Central or mid portion present
M-S	T	N	Scapula?
M	N	N	Mid caudal; one base unfused
			Matrix not bone
			Allochthonous-- reworked
H	T	N	fragment?
S	T	N	Three fragments
			Mostly crown, denticles weak; no facet
N	T	N	Badly broken; secondary
S	T	N	chalcedony
N	T	N	Four fragments
			Questionable ID; definitely abraded, rare
S	T	N	Mid shaft
S	T	N	
M	T	N	
N	T	N	Three fragments
N	T	N	Two fragments
S	T	N	
S	T	N	Lower proximal
			Excellent preservation
S	N	N	
N	N	N	
			Partial neural spine base with one zygopophysis
N	N	N	Ventral margin missing; could be ph 3 or 4
S	T	N	

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Ak-233-V-185	Ant.dorsal vert.rib	1.2 N	N	N
Ak-233-V-186	Chevron fragment	2.8 N	N	L
Ak-233-V-187	Caud. Neural arch	2.1 N	N	L
Ak-233-V-188	Caud.Neural Arch	2.1 N	N	N
Ak-233-V-189	IND bone frag.	2.6 N	N	N
Ak-233-V-190	Neural spine frag.	2.7 N	N	N
Ak-233-V-191	Vertebra frag.	2.2 N	N	N
Ak-233-V-192	Part.Ant.Drs. vert.	2.7 N	N	N
Ak-233-V-193	Ind. Skull fragment	2.7 N	N	L
Ak-233-V-194	Caudal Neural sp.	3.5 N	N	N
Ak-233-V-195	IND bone frag.	2.3 N	N	L
Ak-233-V-196	IND bone frag.	1.9 N	N	N
Ak-233-V-197	IND bone frag.	1.3 N	N	H-M
Ak-233-V-198	IND bone frag.	2.3 N	N	L
Ak-233-V-199	Chevron frag.?	1.6 N	N	N
Ak-233-V-200	Rt. ? Radius	13.2 N	N	N
Ak-233-V-201	Neural arch base	2.1 N	N	N
Ak-233-V-202	Rib fragment	2.8 N	N	N
Ak-233-V-203	Caudal Centrum	4.1 N	N	M
Ak-233-V-204	Cervical Zygo?	3.9 N	N	N
Ak-233-V-205	Caud. Neural spine 1.8 largest	N	N	N
Ak-233-V-206	Rt. Man.,ph1,dIV	3.1 N	N	N

N	N	N	Early juvenile? Unfused
S	T	N	Proximal base & part of shaft
S	T	N	Left side base, unfused
S	T	N	Left side base, unfused.
N	T	N	Skull fragment?
S	T	N	
S	T	N	Zygopophysis?
S	T	N	Neural base with both zygopophyses
S	T	N	Reworked or allochthonous
N	T	N	Most of spine with partial zygopophyses
S	T	N	
N	T	N	
M	N	N	Reworked or allochthonous
S	T	N	
N	T	N	Base of Y
S	T	N	Proximal 1/2
S	T	N	Caudal?
N	T	N	Proximal, below head
M	N	N	Mid caudal; bases not fused
S	T	N	Partial prozygopophysis
S	T	N	Six fragments including partial zygopophyses
S	N	N	Part of proximal margin missing

AK-281-V-001	TROODON TOOTH	1.1 N	N	N
AK-281-V-002	TROODON TOOTH	1 N	N	N
AK-281-V-003	HADRO TOOTH	1 N	N	N
AK-281-V-004	IND bone frag.	2.7 N	N	M
AK-281-V-005	Caudal rib?	1.8 N	N	L
AK-281-V-006	HADRO TOOTH	1.5 N	N	N
AK-281-V-007	Caudal rib? TROODON	0.7 N	N	L
AK-281-V-008	TOOTH	0.6 N	N	N
AK-281-V-009	Caudal neural sp.	4.5 N	N	N
AK-281-V-010	Partial dorsal rib	17 N	N	L
AK-281-V-011	Post.Caudal Centrum	2 N	N	N
AK-281-V-012	Rib fragment	5.2 N	N	N
AK-281-V-013	Caudal Centrum	4.1 N	N	M-H
AK-281-V-014	IND matrix	2.1 N	N	H
AK-281-V-015	IND bone frag.	2.3 N	N	M
AK-281-V-016	Post.Caudal Centrum	N	N	N
AK-281-V-017	OT	2 N	N	L-M
AK-281-V-018	Manus, phalanx	2.1 N	N	M

S	T	N	Distal; worn carinae; mold and tooth crown	
S	T	N	Distal; mold of tooth crown	
N	T	N	Faceted	
M-H	T	N	Neural base?	
M	T	N	Unfused base present	, in matrix
N	T	N	Crown in matrix; covered by Vinac	
S	N	N	Very young juvenile; unfused	
N	N	N	Distal, no facets In matrix;	
N	T	N	zygopophyses present	
M	T	N	In matrix; mid portion of rib	
N	N	N	Distal; neural arch bases unfused	
N	T	N	Proximal, distal to head; thoracic	
H	T	N	Mid caudal? Neural bases unfused	
H	T	N	Reworked-- allochthonous	
M	T	N		
S	T	N	Half distal centrum in matrix	
S	T	N	Incomplete	
M	N	N	Distorted ant.- posteriorly	

AK-281-V-019	HADRO TOOTH	1.3 N	N	N
AK-281-V-020	Caudal NS&NA.	6.5 N	N	N
AK-281-V-021	IND bone frag.	1.3 N	N	M-H
AK-281-V-022	IND bone frag.	2.8 N	N	H
AK-281-V-023	IND bone frag.	1.2 N	N	L
AK-281-V-024	OT	4.3 N	N	L
AK-281-V-025	IND bone frag.	1.9 N	N	M
AK-281-V-026	HADRO TOOTH	0.8 N	N	N
AK-281-V-027	IND bone frag.	2.8 N	N	M-H
AK-281-V-028	HADRO TOOTH	2.4 N	N	N
AK-281-V-029	Pes,ph2,dIV	5.5 N	N	M-H
AK-281-V-030	HADRO TOOTH	0.9 N	N	N
AK-281-V-031	Rib fragment	11.1 N	N	M
AK-281-V-032	Pedal ph2, III	2.5 N	N	H
AK-281-V-033	Post.Caudal Centr	2 N	N	N
AK-281-V-034	IND bone frag.	2.6 N	N	M
AK-281-V-035	IND bone frag.	9.1 N	N	M-H

N	T	N	Crown in matrix, faceted; covered by Vinac
N	T	N	Most of neural spine and arch with post. Zygos.
M-H	T	N	Reworked-- allochthonous?
H	T	N	Reworked-- allochthonous?
S	T	N	Caudal chevron fragment?
S	T	N	Broken into two pieces
S	T	N	Caudal chevron fragment?
N	T	N	Crown with facet
H	T	N	Reworked-- allochthonous?
N	T	N	Crown & partial root; slight facet; denticles present
M-H	N	N	Phalanx two or three. Allochthonous?
N	T	N	Crown with denticles & slight facet; in matrix
M	T	N	Thoracic; mid rib One half present; reworked--
H	T	N	allochthonous
N	N	N	Distal; neural arch bases fused
H	T	N	Reworked-- allochthonous?
S	T	N	Most probably part of a fibula

AK-281-V-036	Neural spine frag.		7.5 N	N	M-H
AK-281-V-037	Partial neural spine		12.2 N	N	L-M
AK-281-V-038	Partial dorsal rib	10.3+	N	N	L
AK-281-V-039	OT		15.3 N	N	N
AK-281-V-040	IND bone frag.		8.5 N	N	L
AK-281-V-041	Thoracic Neural sp.	11.7+	N	N	L
AK-281-V-042	IND bone frag.				
AK-281-V-043	IND bone frag.		1.5 N	N	M
AK-281-V-044	IND bone frag.		2.2 N	N	M
AK-281-V-045	IND bone frag.		4.7 N	N	L
AK-281-V-046	OT	3.1 longest	N	N	L
AK-281-V-047	Broken rib	8.1 & 8.6	N	N	N
AK-281-V-048	Caudal Centrum		3.6 N	N	N
AK-281-V-049	PUBIS?		17.3 N	N	L
AK-281-V-050	Caudal chevron		6.4 N	N	N

Possibly a
duplicaton of #031

M	T	N	Distal part of thoracic vertebra; allochthonous?
H	T	N	Most of neural spine and a portion of NA;alloch?
M	T	N	Mid rib; thoracic
M	T	N	Unusually wide and long; in matrix
M	T	N	Evidence of preburial weathering?
M	T	N	Most of spine present; attached to matrix
S	T	N	RNS
S	T	N	
S	T	N	Distorted partial chevron?
S	T	N	Four pieces of one?
S	T	N	Mid rib; thoracic; highly crushed--compression
S	N	N	Mid caudal? Neural bases fused
S	T	N	Post pubis possibly; distorted
S	T	N	In matrix; one proximal branch in fragments

AK-281-V-051	Right Humerus		22.8 N	N	L
AK-281-V-052	Rib fragmts.	3.0 longest	N	N	L
AK-281-V-053	Caudal chevron		9.3 N	N	L-M
AK-281-V-054	Partial lft rib		19.4 N	N	L
AK-281-V-055	OT		3.5 N	N	L
AK-281-V-056	Caudal neural sp.		7.5 N	N	L
AK-281-V-057	Neural spine frag.		2.5 N	N	N
AK-281-V-058	Rib fragment		3.3 N	N	L
AK-281-V-059	Vertebral fragment	none			
AK-281-V-060	Rt. Ped.ph2, dIV		3.6 N	N	N
AK-281-V-061	Pedal ph2, dIII		5.9 N	N	N
AK-281-V-062	Caud. Neural sp.		15 N	N	L
AK-281-V-063	Post.Caudal Centrum		3.6 N	N	L-M
AK-281-V-064	IND bone frag.		3.5 N	N	M
AK-281-V-065	OT		9 N	N	N
AK-281-V-066	Rt. Astragalus	5.0+	N	N	N
AK-281-V-067	Caudal Centrum		3.8 N	N	N

M-H, P	T	N	Ends punky, corpus less weathered
S	T	N	Two pieces, may be from same rib mid section
S-M	T	N	proximal facets & distal end broken or worn
S	T	N	Near distal end to base of head
S	T	N	Incomplete
M	T	N	One zygapophysis preserved
M	T	N	
S	T	N	Distal.thoracic?
			RNS
S	T	N	Could be phalanx 3 or 4
N	N	N	Could be phalanx 3
S	T	N	Most of spine present, part of arch; 1 zygapoph
S	N	N	Mid-distal; neural bases unfused
M-H	T	N	Reworked-- allochthonous? 1/3 left--rest
N	T	N	impression in matrix
N	N	N	On exhibit: UAMN
S	T	N	Mid-caudal; one part. Neural arch, both bases fused

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AK-281-V-068	Caudal neural sp.	4.3 N	N	N
AK-281-V-069	Rt. Thor.Rib head 9+	N	N	N
AK-281-V-070	TyrannosaurTooth	3.5 N	N	N
AK-281-V-071	Right Ulna	31.3 N	N	L
AK-281-V-072	Metacarpal frag.?	4 N	N	L
AK-281-V-073	Metatarsal II	11.1 N	N	L-M
AK-281-V-074	Caudal Centrum	3.2 N	N	L
AK-281-V-075	Caudal Centrum	4.2 Y	N	M-H
AK-281-V-076	Rib fragment	4.3 N	N	N
AK-281-V-077	Rib	14.5 N	N	N
AK-281-V-078	Neural spine frag.	5.3 N	N	N
AK-281-V-079	Post.Caudal Centrum	1.9 N	N	N
AK-281-V-080	Neural spine frag.	7.4 N	N	L

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S	T	N	Partial spine; zygopophyses present
S	T	N	Badly crushed and fractured
S	T	N	Distal, no facets; carinae highly worn; highly fractured
S-P	T	N	Well preserved except for punky prox end
S	T	N	Some transport?
M	T	N	Right? Somewhat punky prox. End; several breaks
M	N	N	Mid caudal; neural bases fused;
L	N	N	Mid caudal; neural bases fused; three tooth marks?
N	T	N	Mid to proximal rib
N	T	N	Mid half of rib, in matrix
N	T	N	Caudal; distal 2.0 lost tal half lost
N	N	N	Distal caudal; neural bases fused
S	T	N	Most of spine and fragment of neural arch; in matrix

AK-281-V-081	Caud. Spine & arch		6.5 N	N	N
AK-281-V-082	Left Coracoid		8.2 N	N	L
AK-281-V-083	Rib Impression				
AK-281-V-084	OT Impression				
AK-281-V-085	Partial rib head		5.1 N	N	N
AK-281-V-086	IND bone frag.		2.6 N	N	N
AK-281-V-087	Rib fragment		5.1 N	N	L
AK-281-V-088	OT		4 N	N	N
AK-281-V-089	IND bone frag.		7.4 N	N	N
AK-281-V-090	IND bone frags.	1.3 largest	N	N	N
AK-281-V-091	Caudal Centrum		4.8 N	N	N
AK-281-V-092	Caudal Centrum		4.6 ?	N	N
AK-281-V-093	Caudal Centrum		4.7 ?	N	N
AK-281-V-094	Caudal Centrum		4.6 ?	N	N
AK-281-V-095	Caudal Centrum	2.5 larg.frag.	?	N	N
AK-281-V-096	Caudal Centrum		4.2 ?	N	N
AK-281-V-097	Caudal Centrum		4.5 ?	N	N

N	T	N	Complete caud. Neural spine & arch, bases unfused	
L-M&P	T	N	Almost complete, RARE See 281V-10 See 281V-53	
L-M&P	T	N	Badly crushed and fractured	
S	T	N	Rib?	
M	T	N	Badly crushed and fractured	
N	T	N		
N	T	N	Badly crushed and fractured	
N	T	N		FT
S	T	Closely assoc	Mid caudal; arch & bases fused--partly fused	FT
S	T	Closely assoc	Mid caudal; arch & bases fused--partly fused	FT
S	T	Closely assoc	Mid caudal; arch & bases unfused	FT
S	T	Closely assoc	Mid caudal; broken; arch & bases unfused	FT
S	T	Closely assoc	Mid caudal; broken; arch & bases fused	FT
S	T	Closely assoc	Mid caudal; arch & bases fused--partly fused	FT
S	T	Closely assoc	Mid caudal; arch & bases fused--partly fused	FT

AK-281-V-098	Caudal Centrum		4.3 ?	N	N
AK-281-V-099	Caudal Centrum		4.6 ?	N	N
AK-281-V-100	Caud. Neural sp.		4.5 N	N	N
AK-281-V-101	IND bone frag.		2.5 Y?	N	N
AK-281-V-102	Neural spine frag.		3 N	N	N
AK-281-V-103	HADRO TOOTH		2.3 N	N	L
AK-281-V-104	Rib fragments	2.8 largest	N	N	N
AK-281-V-105	IND bone frag.		3.8 N	N	L
AK-281-V-106	IND bone frag.		2.6 N	N	H
AK-281-V-107	HADRO TOOTH		1.1 N	N	N
AK-281-V-108	Caudal Centrum		2.6 N	N	M
AK-281-V-109	Caudal Centrum		3.9 N	N	L
AK-281-V-110	Caudal Centrum		5.2 Y?	N	L
AK-281-V-111	Zygopophysis	none			
AK-281-V-112	OT		6.5 N	N	N
AK-281-V-113	OT	3.2 longest	N	N	L
AK-281-V-114	OT	2.0 longest	N	N	L

S	T	Closely assoc	Mid caudal; arch & bases partly fused	FT
S	T	Closely assoc	Mid caudal; arch & bases fused--partly fused	FT
N	T	N	Most of spine, but without zygapophyses	FT
N	?	N	Two possible parallel tooth marks	FT
N	T	N	Distal 1/2 of spine Crown & partial root; no facet;	FT
S	T	N	denticles faint	FT
N	T	N	Small rib, mid rib; in matrix	FT
S	T	N		FT
H	?	N	Reworked? Allochthonous	FT
N	T	N	Crown; no facet; in matrix	FT
S	N	N	Distorted--shear or compression	FT
S	T	N	Mid caudal; dorsal part broken away	FT
H-P	T	N	Mid caudal; 60% missing	FT
			RNS Turned to powder when shipped	FT
N	T	N		FT
N	T	N	Seven fragments	FT
N	T	N	Three fragments	FT

AK-281-V-115	Post.Caudal Centrum		2.4 N	N	N
AK-281-V-116	Caud. Neural sp.		3.4 N	N	N
AK-281-V-117	HADRO TOOTH		1.6 N	N	N
AK-281-V-118	SEED?		0.5		
AK-281-V-119	Isolated zygops.		2.3 N	N	L
AK-281-V-120	OT		1.7 N	N	N
AK-281-V-121	Chevr. Art. Bases	1.5-1.6	N	N	L
AK-281-V-122	HADRO TOOTH		1.2 N	N	L
AK-281-V-123	Chevron frags.	1.6 longest	N	N	L
AK-281-V-124	SEED?		0.4 N	N	N
AK-283-V-001	Neur. Spine frag.?		2 N	N	L
AK-283-V-002	Caudal Centrum		3.4 Y?	N	L
AK-283-V-003	Caud. Neural sp.		2.8 N	N	L
AK-283-V-004	Rib fragments	1.9 longest	N	N	N
AK-283-V-005	OT				
AK-283-V-006	Caud. Neural sp.		1.9 N	N	N

N	N	N	Distal caudal; neural bases fused	FT
S	N	N	Most of spine and zygopophysis present	FT
N	T	N	Crown with slight facet; denticles weak	FT
			In matrix	FT
S	T	N	Two zygopophyses	FT
N	T	N	Very thin	FT
S	N	N	Three chevron frags., proximal bases	FT
S	T	N	Crown fragment	FT
S	T	N	Y and proximal articular bases present	FT
N	N	N	Possible seed and flower part	
N	T	N	Base with zygopophyses broken away?	
S	N	N	Mid caudal; neural arch bases unfused	
N	T	N	Most of spine; zygopophyses missing	
M-P	T	N	Nine fragments RNS	
N	T	N	Fragment; zygopophyses missing	

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AK-283-V-007	Rt. Thr. Rib head		8.5	N	N	L
AK-283-V-008	IND bone frag.					
AK-283-V-009	Rib fragments	2.6 longest	N	N	N	L
AK-283-V-010	Hadros.tooth frag		0.6	N	N	N
AK-283-V-011	Rib fragment		2.1	N	N	M
AK-283-V-012	Rt. ?Jugal frag.		3.2	N	N	N
AK-283-V-013	Part. Left Tibia	17 largest	N	N	N	L
AK-283-V-014	Partial Calcaneum		3.4	N	N	M-H
AK-283-V-015	IND bone frag.		1.1	N	N	M
AK-283-V-016	IND bone frag.		1.9	N	N	M
AK-283-V-017	TROODON TOOTH		1	N	N	N
AK-283-V-018	Caud. Neural sp.		3.9	N	N	N
AK-283-V-019	Post.Caudal Centrum		2.1	N	N	L
AK-283-V-020	Thoracic rib frag.		2.5	N	N	L
AK-283-V-021	OT		2.1	N	N	N
AK-283-V-022	Caudal Centrum		3.2	N	N	M
AK-283-V-023	IND bone frag.		2.3	N	N	M
AK-283-V-024	Neur. Spine frag.?	2 longest	N	N	N	L
AK-283-V-025	Caudal rib		2.7	N	N	L

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S	T	N	Tubercle present; badly broken RNS
M-P	T	N	Thin pieces or chips or chips in matrix & out
N	T	N	Piece of the crown; faceted
M	T	N	Reworked?
N	T	N	Posterior position
M-P	T	N	18 pieces, ~26 cm reconstructed
M	N	N	Ventral ridge distorted;
S	T	N	Reworked--alloch?
S	T	N	Reworked?
N	N	N	Reworked?
N	N	N	Mesial, faceted; crown incomplete
S	T	N	Most of spine; zygopophs. partial; in matrix
S	T	N	Distal caudal; neural bases fused
M-P	T	N	Reworked?
N	T	N	
S	N	N	Mid caudal; neural arch bases unfused
M	T	N	Reworked?
N	T	N	Eight fragments, one zygopophysis
S-M	T	N	Distal part of rib missing; base unfused

AK-283-V-026	Caudal Centrum		2.8 N	N	M-H
AK-283-V-027	Rt. Laterosphenoid		3 N	N	N
AK-283-V-028	Neur. Spine frag.?		1.8 N	N	L
AK-283-V-029	Pelvic fragment		4.1 N	N	N
AK-283-V-030	Part. Neural arch		2.7 N	N	L
AK-283-V-031	IND bone frag.		2.9 N	N	L-M
AK-283-V-032	Rib fragments	2.9 longest	N	N	L
AK-283-V-033	Rib fragment		3 N	N	L
AK-283-V-034	OT		3.3 N	N	N
AK-283-V-035	Rib fragment		1.6 N	N	M-H
AK-283-V-036	OT		1.6 N	N	L
AK-283-V-037	OT		2.2 N	N	L
AK-283-V-038	Caud. Neural sp.		4.5 N	N	N
AK-283-V-039	Partial Rib		9 N	N	N
AK-283-V-040	Rt. Laterosphenoid?		2.8 N	N	L
AK-283-V-041	Lt.pedal,ph2, dll		3.5 N	N	L
AK-283-V-042	Post.Caudal Centrum		1.6 N	N	N
AK-283-V-043	Neural arch frag.		2.3 N	N	M

H-P	N	N	Reworked-alloch; mid caudal; neural bases unfused	bases unfused
S	T	N	Posterior mid margin	
M	T	N	Distal 1/4; reworked?	
N	T	N	Part of pubis? Unfused neural base & part of neural canal	
S	T	N		
S	T	N		
S	T	N	Badly broken; pieces in matrix and out	
S	T	N	Mid rib section	
N	T	N	In matrix Reworked? Allochthonous	
M-P	T	N	Incomplete	
S	T	N	Incomplete	
S	T	N	1/2 of spine; partly broken zygapophs.	
M-P	T	N	Mostly mid rib; badly crushed & broken	
S	T	N	Found with highly worn frag. Margin loss due primarily to weathering	
S-M	N	N		
S	N	N	Distal caudal; neural bases fused	
S	T	N	Unfused neural base?	Part of arch

AK-283-V-044	Lft. pedal ph2,dIV		3.2 N	N	L-M
AK-283-V-045	IND bone frags.	1.0 largest	N	N	N
AK-283-V-046	Rib fragment		3.1 N	N	N
AK-283-V-047	Rib fragment		6.2 N	N	N
AK-283-V-048	Rib fragment		4.1 N	N	N
AK-283-V-049	Post.Caudal Centr		1.4 N	N	N
AK-283-V-050	Caudal Centrum		3.7 Y?	N	L
AK-283-V-051	Rib fragment		10.4 N	N	L
AK-283-V-052	Caud.neural sp.frg.		2.4 N	N	M
AK-283-V-053	Manus,ungual,dIII		2.3 N	N	N
AK-283-V-054	IND bone frags.	3.0 largest	N	N	N
AK-283-V-055	IND bone frag.		2.9 N	N	M
AK-283-V-056	Neural arch frag.		1.1 N	N	L
AK-283-V-057	IND bone frag. RNS				
AK-283-V-058	OT	2.9 longest	N	N	L
AK-283-V-059	IND bone frag.		6.1 N	N	M-H

S	N	N	Part of external margin missing
N	N	N	Should be NN
S-M	T	N	Mid rib section
	T	N	Distal part of anterior thoracic rib
S	T	N	Proximal, base of head
S	N	N	Distal caudal; neural bases fused
S	N	N	Mid caudal; neural arch bases unfused
M-P	T	N	Mid rib section, highly fractured & crushed
S	T	N	Too small to be sure
S	N	N	Could be digit IV
N	T	N	Cranial fragments?
S	T	N	Reworked?
S	T	N	Base and part of arch?
			RNS
S	T	N	Five pieces; incomplete
M-P	T	N	Piece of ceratopsid frill? Reworked-alloch?

AK-283-V-060	Caudal Centrum		4.2 N	N	H
AK-283-V-061	Ant. Caudal rib?		4.8 N	N	L
AK-283-V-062	Caudal Centrum		3.4	Y?	N
AK-283-V-063	IND bone frag.		0.9 N	N	H
AK-283-V-064	Rib fragment?		1.8 N	N	M-H
AK-283-V-065	Dorsal rib section		3.9 N	N	N
AK-283-V-066	IND bone frags.	3.1 longest	N	N	L
AK-283-V-067	Caud. Neural arch		1.9 N	N	L
AK-283-V-068	Rt. man. ph1, dV?		2.4 N	N	H
AK-283-V-069	Part. lft dorsal rib	20.5+	N	N	L
AK-283-V-070	Part. Neural spine		8.1 N	N	H
AK-283-V-071	Part. Metatarsal II		6.1 N	N	M
AK-283-V-072	Rib fragment		2.1 N	N	N
AK-283-V-073	OT		2.6 N	N	N
AK-283-V-074	OT		3.6 N	N	N

M	N	N	Mid caudal; bases unfused;reworked? Could be distal end of post. Dorsal vert.
S	T	N	
N	N	N	Mid caudal; bases unfused;reworked?
H-P	N	N	Reworked, allochthonous
H-P	T	N	Reworked, allochthonous
N	T	N	Possibly from very young juvenile
S-M-P	T-S?		Three frags, may not belong to same elem.
S	T	N	Unfused base, arch, & zygapophysis
M	T	N	Could be phalanx 2; highly worn, reworked
M-P	T	N	Most of distal & mid rib; highly fractured
H-P	T	N	ID?; poorly preserved in matrix; reworked?
S	T	N	Proximal end; Reworked?
S	T	N	Proximal?
N	T	N	Incomplete
N	T	N	Incomplete

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AK-283-V-075	Part. Caudal chev.		2.4 N	N	N
AK-283-V-076	Chevron fragment		1.3 N	N	N
AK-283-V-077	Ant. Caudal rib?		3.5 N	N	L
AK-283-V-078	Caudal Centrum		3.6 N	N	H
AK-283-V-079	Radius fragment?		5.1 N	N	H
AK-283-V-080	Neural arch frag.		2.2 N	N	L
AK-283-V-081	Partial Rib		9.6 N	N	L
AK-283-V-082	HADRO TOOTH		1.1 N	N	N
AK-283-V-083	Part. Caudal chev.		7.1 N	N	L
AK-283-V-084	Rib fragments	2.9 longest	N	N	N
AK-283-V-085	Rt. Rib fragment		5.4 N	N	N
AK-283-V-086	Partial dorsal rib	8.2 longest	N	N	L
AK-283-V-087	Partial fibula	7.8 longest	N	N	L
AK-283-V-088	Neural arch frag.		1.9 N	N	L
AK-283-V-089	Partial dorsal rib		8.5 N	N	M
AK-283-V-090	Rib fragment		2.4 N	N	N

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N	T	N	Mid Y portion
S	T	N	Proximal articular
S	T	N	end
H-P	N	N	Mid caudal; bases unfused; reworked- alloch?
H-P	T	N	Reworked--
S	T	N	allochthonous
			Unfused base
H-P	T	N	Highly weathered, but probably not rework
N	T	N	Crown with denticles, no facet
S	T	N	Most of distal part;single isolated
N	T-S?	N	prox. End
			Two pieces
N	T	N	Dorsal rib, proximal just below head
M-P	T	N	Highly fractured, 11 pieces
M-P	T	N	Highly fractured, 12 pieces
S	T	N	Unfused neural arch base and part of neural canal
H-P	T	N	Mid rib section, highly fractured & crushed
S	T	N	

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AK-283-V-091	Neural spine base		3.2 N	N	N
AK-283-V-092	Neural arch frag.		2 N	N	N
AK-283-V-093	Neural arch frag.		2.4 N	N	N
AK-283-V-094	Post.Caudal Centr		1.6 N	N	L
AK-283-V-095	Part.lft dorsal rib		13.2 N	N	N
AK-283-V-096	Caudal Centrum		6.2 N	N	N
AK-283-V-097	Partial lft.ILIUM		16.3 N	N	N
AK-283-V-098	Part.Cervical cent		4.4 N	N	M-H
AK-283-V-099	Part. Cervical cent		3.6 N	N	M-H
AK-283-V-100	Part. Rt. Maxilla		9.2 N	N	L
AK-283-V-101	Part. Neural arch	6.5 largest	N	N	N

N	T	N	Roof of neural arch + base of spine
S-MP	N	N	Unfused neural arch base and part of neural canal
S	T	N	Unfused neural arch base and part of neural canal
S	N	N	Distal caudal; neural bases fused
S	T	N	Proximal 1/3 with head & tubercle
N	N	N	Mid caudal; bases unfused; ADULT? Base of ant.
M-P	T	N	Process & part of pubic pedicle Post. Cervical? Neural bases unfused--
H-P	T	N	reworked? Post Cervical? Neural bases unfused--
H-P	T	N	reworked?
M-P	T	N	Mid section of maxilla Rt side of neural arch of post.
M-P	T	N	Dorsal vert.

AK-283-V-102	Caudal Centrum	4.5 N	N	M
AK-283-V-103	Partial dorsal rib	7.9 N	N	M
AK-283-V-104	Rib fragment			
AK-283-V-105	Pterygoid fragmt.?	3.6 N	N	N
AK-283-V-106	Cervical zygop.	4 N	N	N
AK-283-V-107	Left Prefrontal	6.7 N	N	N
AK-283-V-108	MATRIX			
AK-283-V-109	Rib fragment	6.8 N	N	L
AK-283-V-110	Caudal rib frag.	3.5 N	N	N
AK-283-V-111	Rt. Metacarpal II	7.3 N	N	L
AK-283-V-112	Pelvic fragments? 15.6 longst.	N	N	N
AK-283-V-113	Post.Caudal vert	2.3 N	N	L
AK-283-V-114	Left Calcaneum	4.8 N	N	M-H
AK-283-V-115	Troodon formosus			
AK-283-V-116	IND bone frag.	1.7 N	N	H
AK-283-V-117	MATRIX			
AK-283-V-118	Lft. pedal ph2,dIV	4.6 Y?	N	N
AK-283-V-119	Post.Caudal Centr	2.3 N	N	N
AK-283-V-120	Part. Cervical arch	2.7 N	N	L
AK-283-V-121	Lft. Manus,ph2dII	1.4 N	N	N

M-P	T	N	Anterior caudal;rib and neural bases unfused
H-P	T	N	Mid rib, highly crushed & broken RNS
N	T	N	Small fragment, diagnostically thin
N	T	N	
N	N	N	Most complete yet found RNS
S	T	N	Mid thoracic rib
N	T	N	Anterior caudal rib?
S	T	N	Proximal end missing
M-HP	T	N	Ischial shaft? HF, partially in matrix
S	N	N	Post. Caudal; fused arch; adult?
S	N	N	Nearly complete See tooth survey spreadsheet
H-P	N	N	Reworked, allochthonous RNS
S	N	C	Could be 3 or 4; possible tooth indentation
N	N	N	Distal caudal; neural bases fused
S	T	N	Unfused base & zygopophysis
S	N	N	Partial

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AK-283-V-122	Caudal Centrum	3.7 N	N	M
AK-283-V-123	Part. Caudal arch	2.4 N	N	N
AK-283-V-124	Prox. Ulna frag.	7.6 N	N	M
AK-283-V-125	Post.Caudal Centr	1.3 N	N	L
AK-283-V-126	Post.Caudal Centr	2.2 N	N	N
AK-283-V-127	Right Femur	46.6 N	N	N?
AK-283-V-128	IND bone frag.	3 N	N	M-H
AK-283-V-129	Lt.Surangular frag	4 N	N	N
AK-283-V-130	Right Dentary	21 N	N	L
AK-283-V-131	Right ILIUM	43.5 N	N	L
AK-283-V-132	Post. Dorsal arch	5.5 N	N	L
AK-283-V-133	Part. Neural arch	2.5 N	N	L
AK-283-V-134	Chevron fragment	2.5 N	N	L
AK-283-V-135	IND bone frag.	1.8 N	N	M-H
AK-283-V-136	HADRO TOOTH	2.2 N	N	N

M-P	N	N	Mid caudal; reworked?
N	N	N	Half of arch; unfused base
H-P	T	N	Reworked- allochthonous?
S	N	N	Extreme distal or early juvenile;bases fused
N	T	N	Mid-distal caudal; neural bases fused
H-P	T,C	N	NC, highly fractured and crushed
H-P	T	N	Reworked, allochthonous
N	T	N	Part of ventral margin
S	T	N	Post. Section +ang. & sa missing
M-HP	T	N	Part of posterior process missing
M-P	T	N	Neural arch, missing spine and one lateral
S	T	N	Cervical, unfused base&Zygopophys s
S	T	N	Prox. Articular head above Y
H-P	T	N	Reworked, allochthonous
N	T	N	Crown with denticles, no facet; most of root

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AK-283-V-137	Chevron frag.?		3 N	N	N
AK-283-V-138	Cranial fragment				
AK-283-V-139	Partial chevron		5 N	N	N
AK-283-V-140	Caudal centrum?		6.7 Y?	Y?	M
AK-283-V-141	Rt. Sternal bone		15.3 N	N	N
AK-283-V-142	Right Tibia		35 N	N	N
AK-283-V-143	Ant. Caudal rib		2.5 N	N	L
AK-283-V-144	Caudal centrum		3.5 N	N	L
AK-283-V-145	IND bone frag.		0.5 N	N	M-H
AK-283-V-146	Part.Cerv.? Arch		3.4 N	N	M
AK-283-V-147	IND bone frag.		1.8 N	N	M
AK-283-V-148	Chevon fragment		3.2 N	N	N
AK-283-V-149	Hadro tooth frag.		1 N	N	L
AK-283-V-150	Lft Fibular frag.		10 N	N	M
AK-283-V-151	IND bone frags.	5 largest	N	N	M
AK-283-V-152	Quadrante frag.		5.6 N	N	M
AK-283-V-153	Lft. Manus,ph2dV		N	N	M

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N	T	N	Distal end---not typical RNS	
N	T,C	N	Compressed, posterior-anteriorly Ventral surface crushed; bases unfused;allochthonous?	
H-P	T,C	N	Highly fractured and crushed ant.-post.--rare	
H-P	T,C	N	NC, proximal end more fractured and weathered	
M-P	T,C	N	Base unfused	
S	T	N	Mid caudal; neural arch bases unfused	
N	N	N	Small worn chip;allochthonous	
M	?	N	?	
S	T	N	Unfused base + partial arch + part.	
S	T	N	Rib	
N	T	N	Y to 1/3 of distal spine	
S	T	N	Dorsal part of crown, facet	with facet
H-P	T	N	Half of proximal end, highly fractured	
H-P	T	N		
M-P	T	N	Ventral or angular end	
M	N	N		

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AK-283-V-154	Part. Neural arch		10 N	N	N
AK-283-V-155	Rt.Manus,ph1,dV		4.5 N	N	L
AK-283-V-156	Left Maxilla		17 N	N	L
AK-283-V-157	Dorsal vert. frags	4.5 largest	N	N	N
AK-283-V-158	IND bone frag.		2.5 N	N	M
AK-283-V-159	Basisphenoid?		3.5 N	N	N
AK-283-V-160	Prootic frags.?		3.6 N	N	N
AK-283-V-161	Rib fragments	4.3 largest	N	N	N
AK-283-V-162	Caudal Neural sp.		8.3 N	N	N
AK-283-V-163	Left Dentary		19.6 N	N	N
AK-283-V-164	Caud. Arch & sp.	2.3 largest	N	N	N
AK-283-V-165	Post. Dorsal arch		17 N	N	N
AK-283-V-166	OT	5.0 largest	N	N	N
AK-283-V-167	Post.Caudal centrum		3.1 N	N	N
AK-283-V-168	Dorsal vert. frags	4.6 largest	N	N	L
AK-283-V-169	Caudal centrum		4.5 ft	N	N
AK-283-V-170	Cervical neur.arch	5.0 largest	N	N	N
AK-283-V-171	Rt.Pes, ph1, dII		4.2 N	N	N

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N	N	N	RNS
S	N	N	
S-M	T	N	90% complete, minus teeth Pieces of neural spine, arch & lat. Processes
S	T	N	
S-M	T	N	
N	T	N	
N	T	N	May not be cranial Four fragments; dorsal rib Almost complete with both zygopophyses
N	T	N	Single tooth with early facet; post joint gone
S	T	N	Neural arch unfused base; base of spine NC arch, lat. Processes, & NS
S-M	T	N	
N	T	N	Two pieces Distal caudal; neural bases unfused
N	N	N	Neural spine base + parts of lat processes
S-M	T	N	Mid caudal; neural arch bases unfused
S	N	N	
S	T	N	Base of neural spine; zygop.+lats+bases
S	T	N	Ventral proximal margin missing

AK-283-V-172	IND bone frag.	5.7 N	N	H
AK-283-V-173	Neural arch base	2.5 N	N	L
AK-283-V-174	Hadrosaur tooth	2.5 N	N	N
AK-283-V-175	Neural spine frag.	3 N	N	L
AK-283-V-176	Part. Pedal,ph1dIV	5 N	N	L
AK-283-V-177	Part. Left Ulna	10.1 N	N	L
AK-283-V-178	IND bone frags. 6.8 longest	N	N	L
AK-283-V-179	Neural spine frags. 2 largest	N	N	?
AK-283-V-180	Left pedal,ph1dIV	4.1 N	N	M
AK-283-V-181ft	Part. Metatarsal III 5 X 6.0	N	N	M
AK-283-V-182ft	Ind. Bone fragment	2.9 N	N	L
AK-283-V-183ft	Ind. Bone fragment	5 N	N	L-M
AK-283-V-184ft	Ind. Bone fragment	1.9 N	N	M
AK-283-V-185ft	IND skull fragment	3 N	N	M
AK-283-V-186ft	Part.Lft. Metatars.III	6.6 N	N	L-M
AK-283-V-187ft	Part.Lft. Metatars.II	7 N	N	L
AK-283-V-188ft	Part. Rt. Dorsal rib	9.6 N	N	L
AK-283-V-189ft	Caudal Neural sp.	5.2 N	N	L
AK-283-V-190ft	Ramus, Rt.Dentary	5.4 N	N	L

H-P	T	N	Reworked, allochthonous	
S	T	N	Most of one unfused base	
N	T	N	Crown with facet; 2/3 of root	
S	T	N	Distal end of spine	
S	T	N	Proximal end of phalanx	
S	T	N	Distal 1/3; many small fragments	
M-HP	T	N	Two pieces	
H-P	T	N	Nine fragments	
S-M	N	N	Distal part broken & repaired	
M-P	T	N	Proximal end of right MT; poor pres.	
S	T	N	Possibly rib; well preserved	
S-M	T,S	N		
S	T-L	N	Angular marg	rgins
M	T,S	N	No sutural	margins
S-M	T,S	N	Distal 1/4;	the rest punky
S-M	T,S	N	Distal 1/4; t	the rest punky
S	T,S	N	Rib head	minus tubercle
S	T	N	Complete,	zygopophs present
S	T	N	Most of ramu	us + base of coronoid

AK-283-V-191ft	Part. NA & NB		5.1 N	N	L
AK-283-V-192ft	Part. Dorsal rib		5.5 N	N	L
AK-283-V-193ft	Part. Dorsal rib		5.4 N	N	L
AK-283-V-194ft	Part. Metacarpal IV		4.5 N	N	L
AK-283-V-195ft	Part. Parietal		4.5 N	N	L
AK-283-V-196ft	OT	4.0 longest	N	N	L
AK-283-V-197ft	Forearm fragments	3.2 longest	N	N	L
AK-283-V-198ft	Part. Metacarpal III		3.7 N	N	L
AK-283-V-199ft	OT	4.4 & 5.3	N	N	L
AK-283-V-200ft	Part. Metatarsal III		7.8 N	N	L
AK-283-V-201ft	Part. Basisphenoid		5.4 N	N	L-M
AK-283-V-202ft	Metacarpal III		8.8 N	N	L
AK-283-V-203ft	Mid-Caudal Centr		5.2 N	N	L-M
AK-283-V-204ft	Part. Metatarsal III		8 N	N	L
AK-283-V-205ft	OT		13.4 N	N	N-L
AK-283-V-206ft	Manal unguai,d.III		3.5 N	N	N-L
AK-283-V-207ft	Part Manal unguai		3.2 N	N	L-M
AK-283-V-208ft	Part.Manal unguai		2.7 N	N	L
AK-283-V-209ft	Part. Dorsal rib		5.1 N	N	N-L
AK-283-V-210ft	Part. Cervical NA		4.6 N	N	L
AK-283-V-211ft	Metacarpal IV		10.3 N	N	L

S	T,S	N	Unfused base + partial rt. Arch, unusually lg.		
S	T,S	N	Mid-rib sectio	ion; well preserved	
S	T,S	N	Mid-rib to b	ase of head; part of #192 ?	
S	T	N	Distal 1/4; lef	eft manus, unusual	unusually large
S	T,S	N	Left half;	left frontal-pf suture	
S	T	Y	11 pieces, so	narrow; some	articulate
S-M	T,S	Y	12 pieces,		
S-M	T	N	Left manus	;proximal articular	rticular end
S	T	N	Thick & roun	nd; two pieces of	ces of same one
S	T,S	N	Left pes; distal 1/3; well preser		preserved
S-M	T,S	N	Part of an un	unsually large	ge basisphenoid
S	T	N	Right manus;	s; well preserved	
M-HP	T	N	Mid to Anterior-	ior-mid position	
S	T	N	Right pes; di	distal 1/3	
N	T	N	Unusually lo	ong & robust--rib?	
N	L	N	Right manus(?); very well prese	s; well preserved, Rt. Manus?	
M	T,L	N	Right manus;	s. digit II ?	
M	T	N	Rt.(?)manus	; digit III or IV; co	IV; compressed
N	T,L	N	Lft.(?) mid-h	ead section; well p	;well preserved
S	T	N	1/2 of lft. NA; Left Manus, distal	zygopophs present	
S-M	T	N	end punky	distal end abraded	

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AK-283-V-212ft	Rib fragment		2.3 N	N	L
AK-283-V-213ft	Caudal centr.& NA		1.7 N	N	N-L
AK-283-V-214ft	IND bone frag.		2 N	N	N-L
AK-283-V-215ft	Dorsal NA pieces	2.1 largest	N	N	L
AK-283-V-216ft	IND section of bone		9.2 N	N	L-M
AK-283-V-217ft	Caudal NS base		2.7 N	N	L
AK-283-V-218ft	Part. Caudal chevr.	1.6 largest	N	N	L
AK-283-V-219ft	Part. Dorsal NA		2.7 N	N	L
AK-283-V-220ft	IND bone fragments	2.1 largest	N	N	L
AK-283-V-221ft	IND bone fragment		2.5 N	N	H
AK-283-V-222ft	Part.Manal ph.2,d.II		2.2 N	N	L
AK-283-V-223ft	PLANT STEM		2.1		
AK-283-V-224ft	Part. Metatarsal II	4.9 largest	N	N	M-H
AK-283-V-225ft	Part. Metatarsal	4.2 largest	N	N	M-H
AK-283-V-226ft	IND bone fragments	1.3 largest	N	N	M
AK-283-V-227ft	Part. Left scapula		11 N	N	L
AK-283-V-228ft	OT, four pieces	2.8 longest	N	N	N-L
AK-283-V-229ft	Dorsal neural arch	7.3 & 5.6	N	N	L-M

N-S	T,S	N	Part of small	ll dorsal rib--base	base of head
			Prox. Post. position, part. NA, bases unfused		
N-S	T	N			
N	T	N	Found under #097		
N-S	T,L	Y	Unfused NB	;found under #097	
M	T,S	N	Found under #097		
S	T	N	Zygopophs pr	present; found und	nd under # 013
S	T	N	3 pieces of pr	proximal articular p	icular proc., under 13
S	T	N	NB unfused;	; left half of NA; un	NA; found under 013
S	T,S	N	Found under #097	r # 013	
H-P	T	N	Transported?	? Reworked?	? Found under 013
S	T	N	Right manus; NOT BONE	s; found under , IN MATRIX und under # 127; taphonomically significant?	der #130
H-P	T,L	N	7 pieces; foo	found under# 127; taphonomically significant?	
H-P	T,L	N	4 pieces;	rib frags ?	
M-P	T,L	N	5 pieces;		
N-S	T,S,L	N	Posterior 1/3, Long narrow, & incomplete		
N	T	Y			
S-M	T	N	Ant. Dorsal;	NC, unfused NBs;	NBs,NS base

AK-283-V-230ft	Part.dorsal LP		5.2 N	N	L
AK-283-V-231ft	IND bone	9.5 longest	N	N	M
AK-283-V-232ft	Dorsal rib fragment		2.3 N	N	M
AK-283-V-233ft	Partial neural spine		2.9 N	N	L-M
AK-283-V-234ft	Part.dors.postzyga.		2.4 N	N	M
AK-283-V-235ft	Neural arch frag.		2.8 N	N	L
AK-283-V-236ft	Part. Metatarsal IV		5 N	N	L-M
AK-283-V-237ft	Dorsal rib section		8.5 N	N	N-L
AK-283-V-238ft	Part. Coronoid proc.		3.4 N	N	L
AK-283-V-239ft	Dorsal rib section		7.5 N	N	N

AK-284-V-001	Caudal centrum		5.1 N	N	L-M
AK-284-V-002	Caudal centrum		6.1 N	N	L-M
AK-284-V-002	IND bone frag.		6 N	N	H
AK-284-V-003	Rib fragment		2.5 N	N	H
AK-284-V-004	Lft. Dentary frag.		5.2 N	N	L
AK-284-V-005	IND bone frag.		9.2 N	N	N
AK-284-V-006	IND bone frag.		10.1 N	N	L
AK-284-V-007	Part. Neural spine?		4 N	N	M
AK-284-V-008	IND bone frag.		2.5 N	N	M-H
AK-284-V-009	Caudal centrum		4.5 N	N	M

S	T,L	N	LP, part of ba	base; one zygapop	ygapoph. Present
M-P	T,C,L	N	6 pieces; po	oorly preser	rved
M	T	N	Mid-rib piece		
S	T	N	Proximal 1/3		
M-P	T	N			
S	T	N	QUESTIONA	ABLE ID	
S-M	T	N	Right pes;dis	istal end	found under #127
N	T	N	Mid-rib sectio		
S	T	N	Distal end of	f process	
N	T	N	Mid-rib sectio		

S	N	N	Ant. Caudal; bases & LP unfused		
S	N	N	Ant. Caudal; bases & LP unfused		
HP	T	N	Reworked,allochth onous		
M	T	N	Reworked,allochth onous		
M	T	N	Base of coronoid process		
S	T	N			
S	T	N	Radius shaft?		
S	T	N	Mid spine?		
M	T	N	Reworked,allochth onous		
M	N	N	Ant. Caudal; neural bases unfused		

AK-284-V-010	Part. caudal centr	2.8 N	N	H
AK-284-V-011	Partial chevron	5.2 N	N	N
AK-284-V-012	OT	10.3 N	N	L
AK-284-V-013	Neural arch frag.	1.2 N	N	L
AK-284-V-014	Part. Neural arch	4.1 N	N	N
AK-284-V-015	IND fragment			
AK-284-V-016	Caudal centrum	3.2 N	N	N
AK-284-V-017	Part. Left Quadrate	16.1 N	N	L
AK-284-V-018	Part. Left thor. Rib	10.4 N	N	N
AK-284-V-019	Troodon formosus	1.2 N	N	N
AK-284-V-020	Ant. Caudal arch	6.3 N	N	L
AK-284-V-021	Post. Caudal centrum	2.2 N	N	L
AK-284-V-022	Caudal centrum	4 N	N	M
AK-284-V-023	Lft. Manus,ph2,dll	2.1 N	N	N

HP	T	N	Mid caudal; neural bases unfused,dorsal 1/2
S	T	N	Distal process of caudal chevron
S	T	N	Adult?
M	T	N	Neural arch base, unfused
M	T	N	Part. Cervical arch, unfused base RNS
S	N	N	Mid caudal; neural bases unfused Highly fractured, glued together & part.
S	T	N	Reconstructed
N	T	N	Mid to proximal, below head Crown; mesial;early facet, carinae hardly worn
N	N	N	NC, arch and neural spine
S	N	N	Distal caudal; neural bases fused
M	N	N	Ant. Caudal; neural bases unfused
N	N	N	Excellent preservation

AK-284-V-024	Troodon formosus			
AK-284-V-025	Caudal centrum	3.8 N	N	M
AK-284-V-026	Hadrosaur tooth	1.4 & 0.8 N	N	N
AK-284-V-027	Rt. Metacarpal II	8.6 N	N	N
AK-284-V-028	Left Prefrontal	6.6 N	N	N
AK-284-V-029	Rt. pedal,ph2,dIV	2.9 N	N	N
AK-284-V-030	Post.Caudal centrum	1.1 N	N	N
AK-284-V-031	Left Frontal	9.2 N	N	N
AK-284-V-032	Hadrosaur tooth	1.3 N	N	N
AK-284-V-033	Caudal centrum	3.5 N	N	N
AK-284-V-034	Caudal centrum	4.4 N	N	M-H
AK-284-V-035	Caudal centrum	3.6 N	N	N
AK-284-V-036	Pedal ph2or3, dIII	7.2 N	N	N

			See tooth survey & Fiorillo & Gangloff, 2000
S-M	N	N	Mid-Ant. Caudal; neural bases unfused
S	T	N	Crown unfaceted; partial root.
S	T	N	Broken & repaired Best yet, more complete than ref. set
N	N	N	Broken in half, repaired; well preserved
S	T	N	Extreme distal caudal; neural bases fused
S	N	N	Repaired; ant. Process gone; excellent pres.
N	T	N	Crown only, unfaceted
S	T	N	Mid-Ant. Caudal; neural bases unfused
N	N	N	Post-lateral margin gone; bases unfused; allochthon ous?
M-H	TC	N	Mid-Ant. Caudal; neural bases unfused
N	N	N	Broken in half, repaired; ADULT?
S	N	N	

AK-284-V-037	Rt. Dentary frag.	7.3	N	N
AK-284-V-038	Part. Lft. Dorsal rib 7.8 longest	N	N	N
AK-284-V-039	Part. Dorsal rib	10.5	N	N
AK-284-V-040	Rib fragment?	2.3	N	L
AK-284-V-041	Rt. pedal,ph2,dIV	3.3	N	N
AK-284-V-042	Cervical centrum	3.2	N	H
AK-284-V-043	Caudal neural sp.	5.3	N	L-S
AK-284-V-044	Ant. Caudal centr.	4.7	N	M
AK-284-V-045	Lft. Manus,ph2,dV	4.7	N	L
AK-284-V-046	Part. Basisphenoid	4.2	N	L-M
AK-284-V-047	Rt. Metacarpal IV	9.3	N	L
AK-284-V-048	Partial left Tibia	12.4	N	L
AK-284-V-049	Caudal centrum	4.6	N	L
AK-284-V-050	Rt. pedal,ph2,dIV			
AK-284-V-051	OT	4.1	N	L
AK-284-V-052	Caudal chevron	14	N	L
AK-284-V-053	IND bone frags. 5.4 largest	N	N	N

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S	TS	N	Base of coronoid process	
S	T	N	Proximal end; three pieces	
N	T	N	Mid rib to base of head, 1/2 not saved	
S	T	N	Could be ph 3 or 4; broken in half- repaired	FT
H-P	T	N	Reworked,allochthonous	FT
S	T	N	Most of neural spine and arch-zygopophyses neural bases & lateral processes	FT
M-H	N	N	unfused	FT
S	N	N	NC & well preserved	FT
S-M	T	N	About 65% complete	FT
M	T	N	Broken & repaired	FT
H-P	T	N	Distal end; broken & repaired	FT
M-HP	T	N	Ant. Caudal; neur.bases part. fused	FT
S	T	N	On exhibit in main gallery	FT
M-P	TS	N	Incomplete	FT
M-P	TS	N	Almost complete	FT
M-P	TS	N	ADULT? Chevron	FT
M-P	TS	N	Three fragments, Fibula?	FT

AK-284-V-054	IND bone frags.	2.7 largest	N	N	L
AK-284-V-055	Zygopophysis frag		3 N	N	N
AK-284-V-056	IND bone frag.		2.3 N	N	N
AK-284-V-057	IND bone frag.		2.5 N	N	N
AK-284-V-058	OT	2.5 longest	N	N	N
AK-284-V-059	Neural arch frags.		1.8 N	N	N
AK-284-V-060	IND bone frags.	5.8 longest	N	N	L
AK-284-V-061	Manus,ph2, dV		2.3 N	N	N
AK-284-V-062	Rib fragment		3.3 N	N	N
AK-284-V-063	Rt. Metacarpal III		10.1 N	N	L
AK-284-V-064	Caudal centrum		3.5 N	N	N
AK-284-V-065	OT	6.2 assemb	N	N	N
AK-284-V-066	Quadrate frag. ?		5.5 N	N	H
AK-284-V-067	Hadrosaur tooth		1.4 N	N	N
AK-284-V-068	Pedal ungual, Rt.IV		3.3 N	N	L
AK-284-V-069	Hadrosaur tooth		1.9 N	N	N
AK-284-V-070	Right Humerus		28.8 N	N	N
AK-284-V-071	OT		6.8 N	N	N

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M-P	T	N	11 fragments, rib?	
M-P	T	N		
S	T	N	Chevron fragment?	
S	T	N		
S	T	N	Three fragments	
			Four fragments;	
			unfused base	
S	T	N	present	
M-P	T	N	Four	FT
			Sectioned for	
N	N	N	osteological study	
S	T	N		FT
S	T	N	Broken into five	
			pieces--restored	
N	N	N	Ant. Caudal; neural	
			bases unfused	
N	T	N	Four fragments,	
			single tendon?	FT
H-P	T	N	Reworked,allochthonous	FT
N	T	N	Crown, no facet;	
			denticles weak	FT
			Almost complete---	
S	N	N	broken ventral	
			margin	FT
N	T	N	Crown, no facet;	
			denticles weak	FT
S	T	N	Excellent	
			preservation	FT
N	T	N	Unusually thin and	
			complete	FT

AK-284-V-072	Post.Caudal centr		0.7 N	N	N
AK-284-V-073	IND bone frags.	1.5 longest	N	N	M
AK-284-V-074	Part. Cerv. Zygop.		2.5 N	N	L
AK-284-V-075	MATRIX				
AK-284-V-076	Caud.Neural arch		5 N	N	N
AK-284-V-077	Neural spine frag		3.4 N	N	N
AK-284-V-078	Caudal centrum		3.8 N	N	S
AK-284-V-079	Partial ilium				
AK-284-V-080	OT	3.1 longest	N	N	N
AK-284-V-081	Basisphenoid frag.		1.9 N	N	L
AK-284-V-082	Rib fragment		3.7 N	N	L
AK-284-V-083	Partial Metatarsal				
AK-284-V-083	III		6 N	N	L
AK-284-V-084	Rib fragment		3.7 N	N	L
AK-284-V-085	Quadrate fragment		4.7 N	N	M-H
AK-284-V-086	Rt. Dentary frag.		5 N	N	L
AK-284-V-087	Right Ulna		22.3 N	N	N
AK-284-V-088	Rt. dorsal Rib frag.		8 N	N	L
AK-284-V-089	Partial chevron		2.2 N	N	N
AK-284-V-090	IND bone frags.				

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N	T	N	Distal caudal; neural bases fused; Early Juv.	FT
M	T	N	Reworked?	FT
S	T	N	RNS	FT
			Almost complete; neural spine & zygopophs	FT
N	T	N		
N	T	N		FT
M	N	N	Anterior caudal; Neural bases unfused	FT
			RNS	
			Two pieces, may not be same tendon	
N	T	N		
S	T	N	Lft. Dorsal articular head & sulcus	
S	T	N	Thoracic? Mid rib	
S	T	N	Distal 1/3 of LEFT	
N	TS	N	Pes	FT
			Distal part of rib?	
			Lft. Surangular art. Head; abraded- allochth.	
M-P	T	N	Posterior portion	
S	T	N		
S-MP	T	N	Distal end & shaft in excellent shape	FT
			Base of head with tubercle +partial shaft	
S	T	N	Base of Y	FT
M	T	N	RNS	FT

AK-284-V-091	Ped. Ph2 or3,dIII				
AK-284-V-092	Rt. Ped. Ph1,dIII		4.9 N	N	L
AK-284-V-093	Rt?Ped.ph1, dIII		4.9 N	N	L
AK-284-V-094	Partial Neural arch		1.3 N	N	L
AK-284-V-095	Part. Ped.ph2,3,dIII		2.6 N	N	N
AK-284-V-096	OT fragments	3.5 longest	N	N	N
AK-284-V-097	Hadrosaur tooth		2.6 N	N	L
AK-284-V-098	Part.dors.Neur.arc h		5.1 N	N	L
AK-284-V-099	Rib fragments	3.0 longest	N	N	N
AK-284-V-100	Chevron fragment		1.3 N	N	N
AK-284-V-101	Part. Pedal Ungual		3.3 N	N	N
AK-284-V-102	IND bone frag.		2.2 N	N	N
AK-284-V-103	Part. Neural arch		3.5 N	N	N
AK-284-V-104	Part. Rt. Metatars II		6 N	N	L
AK-284-V-105	Partial chevron		7 N	N	L
AK-284-V-106	Rt.Manus,dV, Ung		2.8 N	N	L-M
AK-284-V-107	Rib fragment		3.9 N	N	L
AK-284-V-108	Neural arch base		1.6 N	N	L

			Withdrawn & on Exhibit	FT
S	T	N	Broken & repaired	FT
S	T	N	Ventral margins broken away	FT
S	T	N	1/2 of arch with unfused base	FT
N	T	N	1/3 of phalanx; prox. Margin gone	FT
N	T	N	13 fragments of various sizes	FT
S	T	N	Crown & root almost complete; no facet	FT
S-M	T	N	Lft. Unfused base + post zygapophs.	FT
S-M	T	N	Two fragments, not diagnostic	FT
S	T	N	Piece of proximal branch	FT
N	T	N	Left wing or margin gone	FT
S	T	N		FT
N	T	N	Half of left arch & part of fused base	FT
S	T	N	Part of distal end	FT
S	T	N	Most of distal rod + one part. Prox. limb	FT
S	N	N	Unusual form---	
S-M	T	N	ADULT?	
S	T	N	In matrix	
S	T	N	Unfused base	

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AK-284-V-109	Rib fragments	3.0 longest	N	N	L
AK-284-V-110	Part. Exoccipital?		3.7 N	N	M
AK-284-V-111	Lft. Pedal ph2-4dIV		2.7 N	N	S-M
AK-284-V-112	Lft. Manus ph2,dV		2.1 N	N	N
AK-284-V-113	Hadrosaur tooth		2.2 N	N	N
AK-284-V-114	Part.left dorsal rib		12 N	N	N
AK-284-V-115	Rib fragment?		3.3 N	N	S-M
AK-284-V-116	IND bone frag.		1.6 N	N	M-H
AK-284-V-117	Hadrosaur tooth				
AK-284-V-118	Caudal centrum		2.9 N	N	L
AK-284-V-119	Post.Caudal centr		3.2 N	N	L
AK-284-V-120	Part. Lft. Dorsal rib	10 & 8.5	N	N	N
AK-284-V-121	Left Radius		21.7 N	N	L
AK-284-V-122	Left Dentary		21.3 N	N	L
AK-284-V-123	Partial Neural arch		6.6 N	N	L

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MP	T	N	Two fragments, not diagnostic Left ventral art. Base, but no foramina	FT
MP	T	N		
S	T	N	Well preserved Excellent preservation	
N	N	N	Partial root; crown unfaceted; in matrix	
N	T	N	Mid-proximal portion; well preserved	
S	T	N	Allochthonous?	
M-HP	T	N	Reworked-allochthonous RNS	
M	T	N	Anterior-mid caudal; Neural bases unfused	
S	N	N	Mid-distal caudal; Neural bases unfused	
S	N	N		
N	T	N	Head & tubercle + part of mid shaft	
S	T	N	Broken & repaired; well preserved Nearly complete, no teeth; some fractures	
S-M	T	N		
MP	T	N	Rt. side; Post. Dorsal; lat. Proc.+unfused bs.	

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ANALYSIS 2004

AK-284-V-124	Partial Neural spine		4.5			
AK-284-V-125	Maxilla?		5 N	N		N
AK-284-V-126	Caudal centrum		3 N	N		N
AK-284-V-127	Left Metatarsal II		12.2 N	N		N
AK-284-V-128	Part. left dorsal Rib		13.3 N	N		L
AK-284-V-129	Lft. Manus,ph2,dll		2.4 N	N		N
AK-284-V-130	Dorsal rib fragment		3 N	N		N
AK-284-V-131	Part. Neural arch	2.8,2.9	N	N		N
AK-284-V-132	Dorsal Neural arch		11 N	N		N
AK-284-V-133	Left Quadrate		16.5 N	N		L
AK-284-V-134	Left Metatarsal III		13.7 N	N		L-M
AK-284-V-135	Part. Lt. ILIUM		28.6 N	N		M
AK-284-V-136	Tibia	40+				
AK-284-V-137	Tibia	40+				
AK-284-V-138	Left Scapula		35.8 N	N		L

			RNS	
MHP	T	N	RNS, not saved during preparation	
N	N	N	Mid caudal; neural bases unfused,	FT
MP	T	N	Lat. Compressed, highly fractured Prox.end of head & distal end of body gone	
S	T	N		
N	N	N	Well preserved Most of rib lost during extraction	
S	TS	N	~85%. See map	
S	T	N	Unfused base 95% complete; neural bases unfused	
S	T	N	Pterygoid flange missing; highly fractured	FT
MP	T,L	N	Highly fractured, glued together	FT
MP	T,L	N	Posterior process missing; highly fractured	FT
M-HP	T	N	RNS Lost in preparation	FT
			RNS Sacrificed during excavation	FT
M-P	T,L	N	Highly fractured, glued;almost complete	FT

AK-284-V-139	Rt.Dorsal Rib frags.	21.0,13.3	N	N	L
AK-284-V-140	Ant. Caudal centr.		4.6 N	N	M-H
AK-284-V-141	Lft. Metatarsal II		14.8 N	N	M
AK-284-V-142	Shark tooth		2.2 N	N	N
AK-284-V-143	Caudal centrum		3.4 N	N	N
AK-284-V-144	Half of Caudal cent.		3.5 N	N	L
AK-284-V-145	Ped. Ph1, dIII		5.6 N	N	N
AK-284-V-146	Caudal centrum		2.3 N	N	N
AK-284-V-147	Partial Right Tibia		15.3 N	N	L
AK-284-V-148	Rib fragments	3.1,2.5	N	N	L
AK-284-V-149	Hadrosaur tooth		1.5 N	N	N
AK-284-V-150	Humerus fragment		6 N	N	L
AK-284-V-151	Partial Neural arch		1.9 N	N	L
AK-284-V-152	Part. Cervical arch		10.9 N	N	L

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ANALYSIS 2004

S	T,L	N	Highly fractured, glued;almost complete neural bases & lateral processes	FT
M-P		N	unfused A few breaks, excellent preservation	FT
S	T	N	VERY RARE; imprint in matrix	FT
N	N	N		FT
N	N	N	Mid caudal; neural bases unfused	FT
S	T	N	Mid caudal--adult; neural bases fused One break; excellent preservation	FT
N	T	N		FT
N	N	N	Mid caudal; neural bases fused	FT
M-P	T,L	N	Distal end	FT
S	T	N	Mid & distal rib? Crown with weak facet & denticles	FT
N	T	N	Distal end ; color and induration unusual	
S	T	N		
S	T	N	Caudal neural arch and unfused base Rt. side; prozygopophysis + lateral spine	FT

AK-284-V-153	Hadrosaur tooth		3.5 N	N	N
AK-284-V-154	Lft.Manus,ph2,dll		2.2 N	N	L
AK-284-V-155	IND bone frag.		3.8 N	N	H
AK-284-V-156	Left Tibia		37.3		
AK-284-V-157	Left Dentary	19.0, 10.5	N	N	L
AK-284-V-158	Right Dentary	20.0, 10.6	N	N	L
AK-284-V-159	Rt. Manus,ph1,dlll		2 N	N	L
AK-284-V-160	Part. Lft.Metatars.II		4.6 N	N	L-M
AK-284-V-161	Quadrante fragment		4.5 N	N	L
AK-284-V-162	Hadro. Tooth frag.		0.5 N	N	L-M
AK-284-V-163	Left Radius frag.		5.6 N	N	L
AK-284-V-164	IND bone frag.		2.4 N	N	M-H
AK-284-V-165	Partial Coronoid		4.5 N	N	M
AK-284-V-166	Coronoid + process		9.9 N	N	M
AK-284-V-167	Part. Cervical arch	8.1, 4.5	N	N	M
AK-284-V-168	Partial Humerus		10.7 N	N	M
AK-284-V-169	Left Splenial ?		12.4 N	N	M
AK-284-V-170	Parietal		5.8 N	N	N

N	T	N	Almost complete tooth--crown & root	FT
N	N	N	Well preserved	FT
HP	N	N	Reworked- allochthonous	FT
			On exhibit--DMNH	FT
M-P	T,L	N	Complete except for posterior end	FT
M	T,L	N	Complete except for posterior end	FT
N	N	N	Excellent preservation	FT
S	T	N	Distal end.	FT
			Dorsal end, pterygoid flang gone	FT
S	TL	N	Faceted tip of crown;	FT
N	T	N	allochthonous?	FT
S	T	N	Distal end	FT
H-P	T	N	Reworked- allochthonous	FT
M-P	T	N	Distal end of coronoid process; rt.dentary	FT
S	T	N	Ascending ramus; left dentary	FT
M-P	T,L	N	Two frags. Of arch; prozygopophysis	FT
M-P	T,L	N	Distal end of rt; several breaks--glued	FT
M	T,L	N	RARE	FT
			Anterior process gone; highly fractured	FT
N	T,L	N		FT

AK-284-V-171	Cranial fragment		3.7 N	N	M
AK-284-V-172	Part. Right Jugal		9.1 N	N	L
AK-284-V-173	Part. Zygopophysis		1.7 N	N	N
AK-284-V-174	Neural arch frags.	2.0 largest	N	N	N
AK-284-V-175	Neural arch frags.	1.5 largest	N	N	M
AK-284-V-176	Rib fragments	4.5 largest	N	N	M-H
AK-284-V-177	Part. Metacarpal IV		9.1 N	N	L
AK-284-V-178	Rt. Partial dorsal rib		10.8 N	N	L
AK-284-V-179	Ant. Caudal centr.		4.5 N	N	L
AK-284-V-180	Post. Caudal vert.		1.5 N	N	N
AK-284-V-181	OT	3.0 longest	N	N	N
AK-284-V-182	Post. Caudal centr.		1.5 N	N	N
AK-284-V-183	Hadrosaur tooth		1.3 N	N	N
AK-284-V-184	Dist. End of Radius		3.6 N	N	L
AK-284-V-185	Partial left Scapula		15.3 N	N	L

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ANALYSIS 2004

S	T	N	Very thin, perhaps a lingual plate fragment	FT
S	T	N	Posterior half of element; highly fractured	FT
N	T	N		FT
N	T,L	N	Caudal neural arch and unfused base	FT
M	T	N	Three fragments; unfused neural base	FT
H-P	T,L	N	Five fragments; reworked or diagenesis	FT
M-P	T,L	N	Left; proximal 2/3; highly fractured- glued	FT
S	T	N	Head & tubercle + part of mid shaft	FT
S	T	N	Neural and lateral bases unfused	FT
N	T	N	Neural arch present, neural spine missing	FT
N	T	N	13 fragments of various sizes	FT
N	T	N	Neural arch bases unfused	FT
N	T	N	Crown unfaceted; denticles weak	FT
M	T	N		FT
S	T,L	N	Mid-posterior part of blade	FT

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BONEBED

ANALYSIS 2004

AK-284-V-186	IND bone	10.8 N	N	?
AK-284-V-187	Hadrosaur tooth			
AK-284-V-188	Hadrosaur tooth	2 N	N	N
AK-284-V-189	Left Postorbital	7.8 N	N	N
AK-284-V-190	Ectopterygoid frag.	2 N	N	L
AK-284-V-191	Partial Cervical arch	5 N	N	L-M
AK-284-V-192	Left Squamosal	7.5 N	N	N
AK-284-V-193	Cervical prozygopoph	4 N	N	L
AK-284-V-194	Right Lacrimal	5.7 N	N	N
AK-284-V-195	OT	3.7 N	N	N
AK-284-V-196	IND bone frags.			
AK-284-V-197	Partial Cervical cent.	2.9 N	N	M
AK-284-V-198	IND Cranial frag.	3 N	N	L
AK-284-V-199	OT	1.9 N	N	N
AK-284-V-200	Dorsal lat.Proc.frag	5.5 N	N	L
AK-284-V-201	Partial Rib	7.9 N	N	L
AK-284-V-202	Neural arch frags.	4 N	N	N

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BONEBED

ANALYSIS 2004

H-P	T	N	Very poorly preserved-- diagenesis? RNS	FT FT
N	T	N	Crown unfaceted; partial root.	FT
N	T	N	Very fractured, but well preserved	FT
S	T	N	Very questionable assignment	FT
S-M	T	N	Anterior zygopophysis + part of arch	FT
M-P	T	N	Highly fractured, but well preserved	FT
S	T	N		FT
N	T	N	Highly fractured, but well preserved	FT
N	T	N	Incomplete RNS	FT FT
M-P	T	N	Posterior half of element; highly fractured	FT
N	T	N		FT
N	T	N	Incomplete	FT
S	T	N		FT
S	T	N	Mid-proximal portion; highly fractured	FT
S-M	T	N	Seven fragments	FT

AK-284-V-203	Left Ischium	40+	N	N	L
AK-284-V-204	Left Scapula	27+	N	N	L
AK-284-V-205	Right Tibia		37 N	N	L
AK-284-V-206	Caudal centrum		3 N	N	L
AK-284-V-207	Rib fragments	3.0, 4.0	N	N	L
AK-284-V-208	Rib fragments	4.6, 2.0	N	N	L
AK-284-V-209	Part. Zygapophysis		1.7 N	N	N
AK-284-V-210	Partial dorsal rib		9.5 N	N	L
AK-284-V-211	OT		1.8 N	N	L
AK-284-V-212	COPROLITE?		1.6		
AK-284-V-213	COPROLITE?		2.8		
AK-284-V-214	COPROLITE?		3.2		
AK-284-V-215	OT		2.8 N	N	N
AK-284-V-216	IND bone fragment		0.4 N	N	N

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BONEBED

ANALYSIS 2004

S-MP	T	N	Almost complete, minus posterior end	
M-P	T,L	N	Almost complete, minus posterior end	
M-HP	T,C	N	Mid shaft highly fract; prox. End crushed	
S	N	N	Mid caudal; neural bases unfused	FT
S	T	N	Two fragments of mid rib, not contiguous	FT
S	T	N	Two fragments, left mid & base of head	FT
S	T	N		FT
MP	T,L	N	Mid rib; highly fractured-glued	FT
S	T	N	Incomplete	FT
			May be rounded clay ball	FT
			May be rounded & compressed clay ball	FT
			May be rounded & compressed clay ball in matrix	FT
N	T	N	Three pieces glued; incomplete	FT
N	T	N	With matrix	FT

LISCOMB

BONEBED

ANALYSIS 2004

AK-284-V-217	IND bone fragment	1.1 N	N	N
AK-284-V-218	Partial caud. Chevr.	7.8 N	N	L
AK-284-V-219	IND bone fragment	1.6 N	N	M
AK-284-V-220	Dorsal Neural spine	8.3 N	N	L
AK-284-V-221	Partial left ILIUM	18.4 N	N	?
AK-284-V-222	Hadrosaur tooth	1 N	N	N
AK-284-V-223	Hadrosaur tooth	1.5 N	N	N
AK-284-V-224	Neural arch frags. 2.2 largest	N	N	L
AK-285-V-001	IND bone frag.	3.5		M-H?
AK-285-V-002	MATRIX			
AK-285-V-003	Caudal vert. rib?	3.5 N	N	M
AK-285-V-004	IND bone frag.	1.6 N	N	N
AK-285-V-005	Caud.Neur.sp.frag	2 N	N	N
AK-285-V-006	IND bone frag.	1.8 N	N	N
AK-285-V-007	MATRIX			

N	T	N	Bone chip	FT
S	T,L	N	Distal & prox. Tips gone; crushed & distort.	
S	T	N	Transported, probably not reworked	
M-HP	T,C	N	Incomplete; crushed & distorted	
HP	T,C	N	Anterior portion; anter.process, crushed	
N	T	N	Crown unfaceted; partial root; in matrix	
N	T,L	N	Split crown, no root or facet	
S	T	N	Various fragments in matrix	
			RNS: noted as rounded, no size given	
			Reworked,allochth onous?	
H	T	N	Distorted dorso- ventrally;allochtho ous?	
S	T	N		
S	T	N	Basal 1/2; split longitudinally; one zygopoph	
S	T	N	Neural arch or cranial fragment	
			RNS	

AK-285-V-008	<i>Troodon formosus</i>					
AK-285-V-009	Partial centrum		4.1 N		N	M
AK-285-V-010	Rib fragment		2.1 N		N	L
AK-285-V-011	OT		1.6 N		N	N
AK-285-V-012	IND bone frag.	1.7 longest	N		N	L
AK-285-V-013	<i>Troodon formosus</i>					
AK-285-V-014	Part. Neural spine		1.8 N		N	L
AK-285-V-015	Rib fragments	3.5 longest	N		N	M
AK-285-V-016	OT fragments	1.7 longest	N		N	N
AK-285-V-017	OT fragments	4.0 longest	N		N	N
AK-285-V-018	OT fragment		2.4 N		N	N
AK-285-V-019	<i>Caudal centrum</i>		2.3 N		N	N
AK-285-V-020	Part. Caudal cent.		2.5 N		N	M
AK-285-V-021	OT		8.1 N		N	N

H-P	T	N	See tooth survey & Fiorillo & Gangloff,2000 Caudal? Neural bases unfused-- allochthonous? Chip separated along long axis of rib
M	T	N	Incomplete
S	T	N	One is either distal chip of chevron or n.sp.
S	T	N	See tooth survey & Fiorillo & Gangloff,2000
S	T	N	Prox. 2/3 of spine, with zygapophyses Two frags., one in matrix; poorly preserved
M-P	T	N	Four fragments, may belong together
S	T	N	Two fragments, may belong together
S	T	N	Incomplete
N	T	N	
N	N	N	Mid caudal; neural bases fused
M-HP	T	N	Lateral half; neural bases not fused Reassembled, but incomplete
N	T	N	

LISCOMB

BONEBED

ANALYSIS 2004

AK-285-V-022	Chevron fragment		2.4 N	N	L
AK-285-V-023	OT fragment				
AK-285-V-024	Lft. Manus,ph1dV		6.3 N	N	L
AK-285-V-025	Partial rib		8 N	N	N
AK-285-V-026	Caudal centrum		3.5 N	N	N
AK-285-V-027	Lft. Pes,ph2,dll		4 N	N	N
AK-285-V-028	Caudal centrum		4.6 N	N	L
AK-285-V-029	Basisphenoid	2.8 x 3.0	N	N	L-M
AK-285-V-030	Partial rib		13 N	N	L
AK-285-V-031	Rib fragments	6.5 longest	N	N	L
AK-285-V-032	Caudal centrum		3.1 N	N	L
AK-285-V-033	Rt. manus,ph2,dll		1.9 N	N	N
AK-285-V-034	Post.Caudal centrum		3.2 N	N	N
AK-285-V-035	Hadrosaur tooth		1.7 N	N	N
AK-285-V-036	Part. Neural spine		5 N	N	N
AK-285-V-037	Troodon formosus				

S	T	N	Part of Y-mid chevron RNS
S	T	N	Broken in half, repaired
S	T	N	Post. Cervical rib or early juvenile thor. Rib?
N	T	N	Mid caudal; neural bases unfused
N	N	N	Very well preserved
M-P	T	N	Ant. Caudal; neural bases & ribs unfused
S	T	N	Most thin margins missing---abraded in transport?
S	T	N	Mid rib, thoracic
M-P	T	N	Three fragments, mid thoracic rib
H-P	N	N	Evidence of compression, lateral shear
N	N	N	Very well preserved
S	T	N	Distal caudal; neural bases fused
N	T	N	Crown, unfaceted, weak dent., 1/3 of root
S	T	N	Could be rib fragment? See tooth survey & Fiorillo & Gangloff,2000

AK-285-V-038	Post.Caudal centrum		2.1 N	N	L
AK-285-V-039	Rib fragment		5.9 N	N	N
AK-285-V-040	Caudal chevron	7.4 longest	N	N	N
AK-285-V-041	Partial neural arch		3.3 N	N	N
AK-285-V-042	Hadrosaur tooth		1.2 N	N	N
AK-285-V-043	Rt. Thoracic rib		20.5 N	N	N
AK-298-V-001	Partial right Tibia		11.3 N	N	M
AK-298-V-002	Part. Rt. MetatarsIII		8.5 N	N	L-M
AK-298-V-003	Part. Lft.Metatars II		6.5 N	N	L-M
AK-298-V-004	Part. Phalanx		3.2 N	N	M
AK-298-V-005	Part. Pedal Phalanx		4.4 N	N	?
AK-298-V-006	MATRIX				
AK-298-V-007	MATRIX				
AK-298-V-008	Part. Rt. MetacarpII		3.2 N	N	L-M
AK-298-V-009	IND bone fragment		3.3 N	N	M-H
AK-298-V-010	IND. Bone fragment				
AK-298-V-011	Neural arch frag.		1.6 N	N	M

S	N	N	Distal caudal; neural bases fused	
S	T	N	Three fragments glued together	
S	T	N	All of dist. Process + both prox. Art.	
S	T	N	Bosses	
S	T	N	From post. Dorsal or sacral; Base,lat proc.	
N	T	N	Crown faceted;	
N	T	N	dent. Weak	
			Almost complete	
MP	T	N	Distal end; Internal malleolus gone	FT
S	T,S	N	Proximal end well preserved	FT
M-P	T	N	Proximal end	FT
M-HP	T	N	Indet. highly distorted	
HP	?	N	Rt. phalanx 1, digit II? Highly distorted	
			RNS	
			RNS	
S	T	N	Distal end; Right manus?	FT
S	T,L	N		
			RNS	
S	T	N	Wall of neural canal	

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ANALYSIS 2004

AK-298-V-012	Rib fragment		3.3 N	N	L-M
AK-298-V-013	Neural spine frag.?		1.7 N	N	M-H
AK-298-V-014	Rib fragments	4.8,2.6	N	N	M-H
AK-298-V-015	IND bone fragment		2.2 N	N	M-H
AK-298-V-016	Hadros. Tooth frag.		1.1 N	N	L-M
AK-298-V-017	MATRIX				
AK-298-V-018	MATRIX				
AK-298-V-019	Part. Neural spine		3.5 N	N	M
AK-298-V-020	Post.Caudal centrum		2.1 N	N	M
AK-298-V-021	Partial caud. Centr.		2.3 N	N	M-H
AK-298-V-022	Partial dorsal rib		12.2 N	N	H
AK-298-V-023	Right Ulnar frags.	10.4,5.4	N	N	M-H
AK-298-V-024	IND bone fragment		2 N	N	M
AK-298-V-025	Rt.pedal ph2, dll		3.6 N	N	L
AK-298-V-026	IND bone fragment		7 N	N	L-M
AK-298-V-027	Left Humerus		20.4 N	N	L
AK-298-V-028	IND bone fragment		2.5 N	N	M
AK-298-V-029	Post.Caudal centrum		1.6 N	N	N

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ANALYSIS 2004

M-HP	T,C	N	Compressed mid rib section	
M	T	N		
MP	T,L	N	Highly fractured mid rib;allochthonous?	
HP	T	N	Reworked, allochthonous	FT
N	T	N	Part of crown? RNS RNS	FT
HP	T	N	Distal end in matrix	
S	N	N	Distal caudal; bases fused	
HP	T	N	Mid caudal? Bases unfused;lateral shear	
HP	T	N	Reworked, allochthonous	
HP	T	N	Reworked-- allochthonous?	
M	T	N		FT
S	T	N	Broken in half-- glued	FT
HP	T,C	N	Crushed; in matrix	
S-M	T,L	N	Broken but well preserved	
M-HP	T	N	Reworked, allochthonous	
S	N	N	Distal caudal; bases fused	

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ANALYSIS 2004

AK-298-V-030	IND bone fragment	2.1 N	N	M-H
AK-298-V-031	Tyrannosaur tooth			
AK-298-V-032	Rib fragment	2.6 N	N	M
AK-298-V-033	MATRIX			
AK-298-V-034	Caudal centrum	4.6 N	N	L-M
AK-298-V-035	LEFT ILIUM frag.	8.3 N	N	M
AK-298-V-036	Rib fragment?	11.2 N	N	M-H
AK-298-V-037	Cerv.Postzygapop h.	6.2 N	N	M
AK-298-V-038	IND bone fragment	4 N	N	M-H
AK-298-V-039	IND bone fragment	3 N	N	H
AK-298-V-040	Right Humerus	30.4 N	N	L
AK-298-V-041	IND bone fragment	3 N	N	M
AK-298-V-042	Right Ulna	30 N	N	L-M
AK-298-V-043	Caudal Neural arch	6.5 N	N	L
AK-298-V-044	IND bone fragment	3.7 N	N	M
AK-298-V-045	Caudal Vertebra	2.7 N	N	L

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ANALYSIS 2004

S-M	T	N	Reworked, allochthonous See Liscomb tooth survey & Fiorillo&Gangloff	ID questioned	FT
M-HP	T	N	Mid rib; reworked? Misidentified-- matrix	ID questioned allochthonous?	FT
M-P	T	N	Mid caudal? Bases unfused; lateral shear		FT
HP	T	N	Anterior process piece		
HP	T,C	N	Crushed;allochthon ous?		
MP	T	N	Incomplete		
HP	T	N	Reworked, allochthonous		
M	T	N	Reworked or allochthonous?		
M-HP	T,L	N	In good condition-- most articular surfaces		FT
HP	T	N	Reworked, allochthonous		FT
MP	T,L,C	N	Almost complete; prox. End crushed & dist.		
S	T	N	Arch & spine complete, in matrix		
M-P	T,L	N			
MP	T,C	N	Complete; highly fractured & distorted		

AK-298-V-046	Caudal centrum		4 N	N	L-M
AK-298-V-047	IND bone fragment		1.9 N	N	L-M
AK-298-V-048	Neural spine frag.?		2.2 N	N	M-H
AK-298-V-049	IND bone fragment		3 N	N	M-H
AK-298-V-050	IND bone fragment		2 N	N	?
AK-298-V-051	Cerv.Postzygapoph.		5 N	N	?
AK-298-V-052	Part. Neural arch?		4.9 N	N	M-H
AK-298-V-053	Neural arch base?		2.8 N	N	M-H
AK-298-V-054	Partial rib		7.5 N	N	L-M
AK-298-V-055	Caudal centrum		4.1 N	N	L-M
AK-298-V-056	Part. Dorsal rib	22.0+	N	N	L-M
AK-298-V-057	Caudal centrum		2.9 N	N	N
AK-298-V-058	IND bone fragment		2.5 N	N	M-H
AK-298-V-059	Rt.pedal ph2, Div		2.5 N	N	L
AK-298-V-060	Rib fragment		4.4 N	N	M-H
AK-298-V-061	MATRIX				
AK-298-V-062	IND bone fragment		2.3 N	N	M-H
AK-298-V-063	Rib or Neur.sp. Frag.		2.2 N	N	M-H

MP	T,C	N	Mid caudal; neural bases unfused;	
S	T	N	crushed	
M-HP	T	N	Reworked, allochthonous	
HP	T	N	Reworked, allochthonous	
?	?	?	RNS	
HP	T	N	Poorly preserved; allochthonous?	
M-HP	T	N	Poorly preserved; allochthonous?	
M-HP	T	N	Poorly preserved; allochthonous?	
M-HP	T,L,C	N	Highly fractured mid rib	
S-M	N	N	Mid caudal; neural bases unfused	
HP	T,L,C	N	Mid dorsal--proximal; crushed	
S	N	N	Mid caudal;neural bases unfused	
M	T	N	reworked-allochthonous?	
S	T	N	Could be 3 or 4; split in half	
HP	T,L	N	Reworked, allochthonous	
			RNS;	
			MISIDENTIFIED	FT
M-HP	T	N	Reworked, allochthonous	
M-HP	T	N	Reworked, allochthonous	FT

AK-298-V-064	Rib head?		7 N	N	M-H
AK-298-V-065	MATRIX				
AK-298-V-066	Partial dorsal rib		23.1 N	N	L-M
AK-298-V-067	Part. Dorsal rib		8.3 N	N	N
AK-298-V-068	Lft manus,ph2,dll		1.9 N	N	L
AK-298-V-069	Cervical rib?		5.3 N	N	L
AK-298-V-070	Neural arch frags. 2.0 largest		N	N	L
AK-298-V-071	Caud.Neur.arch frag		2.2 N	N	L
AK-298-V-072	Neural arch base		1.8 N	N	N
AK-298-V-073	Cervical zygapoph.		3.9 N	N	L
AK-298-V-074	Part. Caud. Neur.sp		2.9 N	N	L
AK-298-V-075	Rt. Rib fragment		5.1 N	N	L
AK-298-V-076	Part. Neural arch		1.4 N	N	L
AK-298-V-077	Caudal Vertebra				
AK-298-V-078	Part. Caudal chevr.		5.6 N	N	L
AK-298-V-079	OT 3.9+		N	N	L
AK-299-V-001	IND bone fragment		1.5 N	N	L-M
AK-299-V-002	IND bone fragment		1.4 N	N	L-M

M-HP	T	N	Reworked- allochthonous?	FT
			Misidentified; RNS	FT
MP	T,L	N	Highly fractured mid rib	
N	T	N	PALEOPATHOLO GY--healed break	
S	N	N		
S	T	N	Rib base unfused	
			Five pieces; zygopophs; bases unfused	FT
S	T	N	Neural arch base unfused	FT
S	T	N	Base unfused	
S	T	N		
S	T,L	N	Postzygopophysis + base of neural spine	
S	T	N	Base of rib head	
S	T	N	Unfused neural base	FT
			Impression in matrix--could be 045	FT
S	T	N	Partial distal process + part of Y	FT
S	T	N	Incomplete, two pieces	FT
S	T	N	Reworked, allochthonous?	FT
S	T	N	Reworked, allochthonous?	FT

AK-299-V-003	Partial Radius		5.6 N	N	N
AK-299-V-004	Caudal centrum				
AK-299-V-005	Caudal centrum		3.3 N	N	L-M
AK-299-V-006	Part. Caudal centr.		3 N	N	N
AK-299-V-007	Rib fragment		3.5 N	N	L
AK-299-V-008	Post.Caudal centr		1.4 N	N	N
AK-299-V-009	Metatarsal fragment		3.2 N	N	M-H
AK-299-V-010	Rt. ? Ungual, dIV		5.3 N	N	L
AK-299-V-011	Dorsal vert. zygap.		4.2 N	N	L
AK-299-V-012	OT		1.7 N	N	L
AK-299-V-013	Rib fragment		2.1 N	N	L
AK-299-V-014	Caud. Chev.frag. 5.8 largest		N	N	L
AK-299-V-015	Pedal ph2-4,dIV		2.5 N	N	L-M
AK-299-V-016	IND bone fragment		1.4 N	N	L
AK-299-V-017	OT	1.8,3.6	N	N	L
AK-299-V-018	Rib fragment?		1.5 Y?	N	L
AK-299-V-019	OT		2 N	N	N
AK-299-V-020	Part. Rt. Exoccipital		4.2 N	N	L

LISCOMB

BONEBED

ANALYSIS 2004

N	T	N	Mid shaft--- foramen present RNS	FT FT
S-M	T	N	Mid caudal; neural bases unfused	
N	T	N	One quarter of original	
S-M	T	N	Mid rib part	
N	N	N	Distal caudal; neural bases fused	
M-HP	T	N	Proximal articular ridge? Allochthonous- reworked?	
M-HP	T,C	N	Crushed in distal-- proximal direction	
S-M	T	N		
S	T	N	Incomplete	
N	T,C	N	Base of head	
N	T	N	Most of distal process ;in matrix	
MP	T	N	Less than half of original	
S	T	N		
S	T	N	Two pieces, one in matrix	
S	T	N	MARKS	
N	T	N	Incomplete; crushed	
S	T,L	N	Ventral articular head--basioccipital articul.	

LISCOMB

BONEBED

ANALYSIS 2004

AK-299-V-021	Post zygapophysis	1.7 N	N	N
AK-299-V-022	Hadrosaur tooth	2.1 N	N	N
AK-299-V-023	Left. Calcaneum	4.1 N	N	L
AK-299-V-024	Part. Caudal chevr.	4.8 N	N	L
AK-299-V-025	Rib fragment	2.9 N	N	L
AK-299-V-026	Phalanx?			
AK-299-V-027	Part. Splenial	5.5 N	N	L
AK-299-V-028	OT	1.6 N	N	N
AK-299-V-029	IND bone fragment	1.1 N	N	H
AK-299-V-030	Chevron frag.?	2.1 N	N	M-H
AK-299-V-031	IND bone fragment	2.9 N	N	L
AK-299-V-032	IND bone fragment	2.1 N	N	L
AK-299-V-033	Caudal centrum	4.3 N	N	M
AK-299-V-034	IND bone fragment	1.6 N	N	L
AK-299-V-035	Post.Caudal centr	1.3 N	N	N
AK-299-V-036	IND bone fragment	1.5 N	N	M
AK-299-V-037	IND bone fragment	1.6 N	N	L-M
AK-299-V-038	Part. Cerv.Neur.arch	3.2 N	N	N

LISCOMB

BONEBED

ANALYSIS 2004

N	T	N		
S	T	N	Crown without facet; in matrix	
S	T,C	N	Almost complete; mosaically fractured	
MP	T,C	N	Most of distal process	
MP	T	N	Mid rib part	? Unfused Neur. Base?
S	T,L	N	RNS	
S	T	N	RARE!!	
HP	T	N	Incomplete	
S	T	N	Reworked, allochthonous?	
S	T	N	Transported, reworked?	
S	T,L	N		
S	T	N	Hadrosaur tooth root?	
M	N	N	Mid caudal; neural bases unfused	
S	T	N	Rib chip or neural arch fragment	
N	N	N	Distal caudal; neural bases fused	FT
M	T	N	Allochthonous, reworked?	FT
S-M	T	N		FT
N	T,L	N	Rt. Neural arch with both zygapophyses	FT

AK-299-V-039	IND bone fragment	1.7 N	N	M
AK-299-V-040	IND bone fragment	0.9 N	N	M
AK-299-V-041	IND bone fragment	1.4 N	N	L-M
AK-299-V-042	Hadrosaur tooth	1.8 N	N	M
AK-299-V-043	OT	2.1 N	N	N
AK-299-V-044	Part. Caudal vert.	2.6 N	N	N
AK-299-V-045	OT	2.4 N	N	N
AK-299-V-046	Rib fragment?	2.6 N	N	N
AK-299-V-047	Partial Quadrate?	4.7 N	N	N
AK-299-V-048	Part. Caudal chev.	2.8 N	N	L
AK-299-V-049	NOT BONE			
AK-299-V-050	OT	3.3 N	N	L
AK-299-V-051	Rib fragment	3.6 N	N	L
AK-299-V-052	Caudal centrum?	6.4 N	N	H?
AK-299-V-053	Caud. Chev.frag.	2.7 N	N	L
AK-299-V-054	Partial Squamosal	3.4 N	N	N
AK-299-V-055	OT	1.4 N	N	N
AK-299-V-056	OT	1.9 N	N	N
AK-299-V-057	OT	2 N	N	N
AK-299-V-058	IND bone fragment	3.3 N	N	N
AK-299-V-059	Partial IND bone	8.3 N	N	?
AK-299-V-060	IND bone fragments			

S-M	T	N	Rib chip or neural arch fragment	FT
S-M	T	N		FT
M-H	T	N	Allochthonous-reworked?	FT
S	T	N		FT
N	T	N	Incomplete	FT
S	T	N	Distal; part.arch; no spine	FT
N	T	N	Incomplete	FT
N	T,S	N		FT
N	T,L	N	Mid shaft	FT
S	T	N	Distal part of ventral process	FT
			Misidentified; RNS	FT
S	T	N	Incomplete	FT
S-M	T,L	N	Mid rib part	FT
			Compressed & distorted ant.-posteriorly	
M-HP	T,C	N	Proximal articular end of Y	FT
N	T	N	LEFT; post-dorso-parietal articulation	
N	T	N	plus	FT
N	T	N	Incomplete	FT
N	T,S	N	Incomplete	FT
N	T	N	Incomplete	FT
			Crushed longitudinally	
M-HP	T,L,C	N	Crushed longit.; Metatarsal or dist.	FT
HP	T,C	N	Humerus	FT
			RNS	FT

AK-299-V-061	Rib fragment		4.9 N	N	L
AK-299-V-062	IND bone				
AK-299-V-063	fragments				
AK-299-V-063	Radius fragment	3.5 x 4.0	N	N	L
AK-299-V-064	Part. Caud. Neur.sp		1.7 N	N	L
AK-299-V-065	IND bone fragment		2 N	N	L
AK-299-V-066	IND bone fragment		1.8 N	N	L
AK-299-V-067	IND bone fragment		2.1 N	N	L
AK-299-V-068	Part. Neural spine		3.3	N	N
AK-299-V-069	Rib fragment		2.9 N	N	N
AK-299-V-070	IND bone fragment		1.7 N	N	L
AK-299-V-071	IND bone fragment		2.6 N	N	N
AK-299-V-072	Rib fragment		1.9 N	N	N
AK-299-V-073	IND bone fragment		2 N	N	L-M
AK-299-V-074	Rib fragment		2.8 N	N	L
AK-299-V-075	IND bone fragment		2.1 N	N	N
AK-299-V-076	Pterygoid frag. ?		2.5 N	N	N
AK-299-V-077	Part. Rt. Jugal ?		8.2 N	N	L
AK-299-V-078	Partial Chevron		4.9 N	N	L
AK-299-V-079	Part. Caud.Chevr.		3.4 N	N	L
AK-299-V-080	Post.Caudal centr		2.2 N	N	N
AK-299-V-081	NOT BONE				

LISCOMB

BONEBED

ANALYSIS 2004

HP	T,C	N	Dorsal, mid rib; in matrix	FT
S	T	N	RNS Distal end	FT
S	T	N	Base of spine with both zygapophyses	FT
S	T,S	N		FT
S	T	N	Possible chevron fragment	FT
S-MP	T	N		FT
S	T	N	Distal end of spine	FT
N	T,S	N	Mid rib part	FT
N	T,L	N		FT
N	T,L	N		
N	T	N		
M	T,L	N		
MP	T,L	N		
N	T,L	N		
N	T,C	N		
S-M	T,C	N		
S	T,L	N	Most of distal process	
S	T	N	Complete proximal Y	
N	N	N	Distal; part.arch; no spine;bases fused	
			RNS	

LISCOMB

BONEBED

ANALYSIS 2004

AK-299-V-082	Part. Caud. Chevr.	4.3 N	N	L
AK-299-V-083	Part. Ped.ph2,dIV	2.5 N	N	N
AK-299-V-084	IND bone fragment	7.8 N	N	L
AK-299-V-085	Hadrosaur tooth	2 N	N	N
AK-299-V-086	Part. Hadro crown	0.8 N	N	L
AK-299-V-087	Pedal ph2-3, dIII	5.4 N	N	N
AK-299-V-088	Theropod tooth			
AK-299-V-089	Lft. Pes, Metatars. II	15 N	N	L-M
AK-299-V-090	Hadrosaur tooth	1.5 N	N	N
AK-299-V-091	Dorsal Neural spine	8.2 N	N	L
AK-299-V-092	Hadrosaur tooth	1.4 N	N	L
AK-299-V-093	Part. zygapophysis	2 N	N	L
AK-299-V-094	Rib fragment	5.4 N	N	L-M
AK-299-V-095	Part. Cerv. Neur. arch	3.6 N	N	N
AK-299-V-096	IND bone fragment	2.5 N	N	L

S-M	T,C	N	Mid part, partial dist. Process & part. Y
S	T	N	1/4 of element present
S	T,L	N	
S	T	N	Crown with facet & small denticles; part. Root
S	T	N	Crown with worn facet, denticles gone
N	T	N	Broken in half-- glued; excellent preserv.
S-MP	T,L,C	N	Withdrawn for study; missing Shaft crushed- glued
S	T	N	Crown faceted; denticles weak; little root left
S-MP	T,L	N	Distal margin broken away in part.
S	T	N	Crown with weak denticles; root gone
S	T	N	Cervical
M-HP	T	N	postzygo.?
	T	N	Dorsal mid rib
N	T	N	Prozygapophysis & anterior process
M	T,S	N	

LISCOMB

BONEBED

ANALYSIS 2004

AK-299-V-097	IND bone fragment	2.5 N	N	L
AK-299-V-098	OT?	8.5 N	N	L
AK-299-V-099	IND bone fragment	4 N	N	M-H
AK-299-V-100	Right Pes,ph2,dll	3.7 N	N	L
AK-299-V-101	IND bone fragment	5.5 N	N	M
AK-299-V-102	Right Dentary frag.	4 N	N	L-M
AK-299-V-103	Part. Neural base	2 N	N	L
AK-299-V-104	Part.Caud. Chevron	4.2 N	N	L
AK-299-V-105	IND bone fragment	1.7 N	N	H
AK-299-V-106	Caudal rib-lat.proc.	2.8 N	N	L
AK-299-V-107	Hadrosaur tooth	3.1 N	N	N
AK-299-V-108	Caudal centrum	4.5 N	N	L
AK-299-V-109	Part. Lft. Quadrate	5.3 N	N	L
AK-299-V-110	Partial left Rib	11 N	N	N
AK-299-V-111	Dorsal Neural arch	3.4 N	N	L

LISCOMB

BONEBED

ANALYSIS 2004

N	T,S	N		
S	T,L	N	Possibly from an adult, unusually large	
HP	T	N	Reworked, allochthonous?	
S-M	N	N	Well preserved & undistorted	
HP	T,C	N	Highly crushed & fractured; allochthonous?	
S	T	N	Piece of anterior end of dentary	
S	T,S	N	Base unfused	
S	T	N	y complete; distal process	
M	T	N	incomp., crushed	
S	T	N	Reworked, allochthonous?	FT
S	T	N	Left unfused base & process	FT
S	T	N	NC, crown unfaceted, denticles weak	FT
N	N	N	Mid--anterior caudal; bases unfused	FT
S	T,L	N	Dorsal articular end & part.	
S	T,C	N	Pterygoid flange	FT
S	T,C	N	Most of rib head with tubercle; crushed in part	
S-M	T,C	N	Partial neural unfused base and NC wall	FT

LISCOMB

BONEBED

ANALYSIS 2004

AK-299-V-112	Part. Metacarpal IV		4.8 N	N	M
AK-299-V-113	IND bone fragment		3.1 N	N	L
AK-299-V-114	Caudal centrum		4.2 N	N	M-H
AK-299-V-115	IND bone fragment		3.3 N	N	L
AK-299-V-116	Caudal centrum		2.5 N	N	N
AK-299-V-117	IND bone fragment		2.1 N	N	N
AK-299-V-118	Rib fragment		3.1 N	N	N
AK-299-V-119	IND bone fragment		4.3 N	N	M-H
AK-299-V-120	OT		4.3 N	N	N
AK-299-V-121	Part. Neural spine		4.5 N	N	M-H
AK-299-V-122	Fibula fragment?		3.5 N	N	L
AK-299-V-123	Part. Caudal centr.		4.6 N	N	M-H
AK-299-V-124	IND bone fragment		3.3 N	N	H
AK-299-V-125	Lft. Manus,ph2,dll		1.8 N	N	N
AK-299-V-126	Caudal centrum		2.6 N	N	L-M
AK-299-V-127	IND bone fragments	4.6 largest	N	N	L-M
AK-299-V-128	Rib fragment		3.7 N	N	L
AK-299-V-129	Caud.Chevr.frag.?		1.6 N	N	L
AK-299-V-130	IND bone fragment		4.4 N	N	L
AK-299-V-131	IND bone fragment		1.8 N	N	L-M

LISCOMB

BONEBED

ANALYSIS 2004

HP	T	N	Distal end; reworked?
M	T	N	Transported, reworked?
S	N	N	Mid--anterior caudal; bases unfused
S	T,C	N	Rib fragment? Mid--anterior caudal; bases fused
N	T	N	
N	T	N	
N	T,L	N	Mid dorsal rib Allochthonous- reworked?
M	T	N	Incomplete
N	T	N	Distal portion
M	T	N	Mid shaft
N	T	N	Mid-anterior caudal; neural bases unfused; allochthonous?
HP	T,L	N	Reworked, allochthonous?
M	T	N	Excellent preservation
N	N	N	
S	N	N	Mid caudal; neural bases unfused
HP	T,C	N	Highly crushed & fractured
S	T,C	N	
N	T	N	Proximal articular end of Y
S	T	N	Rib or neural spine
S-M	T	N	Bone chip

LISCOMB

BONEBED

ANALYSIS 2004

AK-299-V-132	Partial Pterygoid		5.8 N	N	L
AK-299-V-133	Partial left Rib		7.8 N	N	L
AK-299-V-134	Troodon formosus				
AK-299-V-135	Caudal centrum		5.6 N	N	M
AK-299-V-136	Rt. dorsal Rib	17.5 longest	N	N	L
AK-299-V-137	Part. Lft. Quadrate		4.8 N	N	L-M
AK-299-V-138	Rt. Metatarsal IV		18.9 N	N	L
AK-299-V-139	IND bone fragment		1.8 N	N	M
AK-299-V-140	Part. Rt. ILIUM		17.8 N	N	L-M
AK-299-V-141	Partial dorsal Rib		5.4 N	N	L-M
AK-299-V-142	IND bone fragment		6 N	N	M-H
AK-299-V-143	IND bone fragment		2.3 N	N	M-H
AK-299-V-144	Lft.Manus,ph1,dIV		2.9 N	N	M-H
AK-299-V-145	Part. Caudal chevr.		4.7 N	N	M

S	T,C	N	Main body highly crushed; flanges gone
S	T,C	N	Head & tubercle + mid rib; highly crushed See tooth survey & Fiorillo & Gangloff 2000
M-HP	T,C	N	Mid-anterior caudal; neural bases unfused
S	T,C	N	Almost complete; highly crushed head
S	T	N	Ventral articular head--pterygoid flange gone
HP	T,C	N	Highly crushed & fractured; diagenetic?
M-H	T	N	Allochthonous, reworked?
M-HP	T,C	N	Most of the anterior process; highly fractured
S	T	N	Part of distal portion
S	T,L	N	Reworked, allochthonous?
S	T	N	Cranial fragment? Reworked?
S	N	N	Allochthonous-reworked?
S	T,L,C	N	Base of Y; crushed & flattened longit.

LISCOMB

BONEBED

ANALYSIS 2004

AK-299-V-146	Dorsal Rib fragment	4.9 N	N	M
AK-299-V-147	Dorsal Rib fragment	6.7 N	N	M-H
AK-299-V-148	Dorsal Rib fragment	5.5 N	N	M
AK-299-V-149	Cervical zygapoph	3 N	N	L
AK-299-V-150	Part. Caudal chev.	6.8 N	N	L-M
AK-299-V-151	Caudal centrum	4.7 N pathology	N	L
AK-299-V-152	Left Metacarpal II	8.5 N	N	L-M
AK-299-V-153	Caudal centrum	3.3 N	N	N
AK-299-V-154	Left Postorbital	6.5 N	N	L
AK-299-V-155	IND bone fragment	2.6 N	N	M-H
AK-299-V-156	Radius fragment	5.9 N	N	L
AK-299-V-157	Part. Cerv.Neur.arch	2.9 N	N	N
AK-299-V-158	Metacarpal IV frag.	2.6 N	N	L
AK-299-V-159	Caudal centrum	4.3 N	N	L-M
AK-299-V-160	Humerus			

LISCOMB

BONEBED

ANALYSIS 2004

MP	T,C	N	Mid rib part Base of head; Transported, reworded?	
M	T	N	Mid rib part; highly crushed & fractured	
M-H	T,C	N	Prozygapophysis & small part of process	FT
S	T	N	Distal process minus proximal Y; in matrix	FT
S-M	T,C	N	Mid-ant. caudal; bases unfused; LESION	FT
S	T	N	Well preserved & undistorted	FT
N	T	N	Mid caudal; neural bases unfused	
N	T	N	Part of dorsal- anterior margin gone	
L	T	N	Reworked, allochthonous?	
S	T,C,R	N	Partial proximal end; highly fractured	
N	T	N	Base unfused; zygapophysis gone	
S	T	N	Left? Proximal end Mid-anterior caudal; bases unfused	
S-M	N	N	RNS	

LISCOMB

BONEBED

ANALYSIS 2004

AK-299-V-161	IND bone mass		7 N	N	?
AK-299-V-162	Part. Neural arch		2.3 N	N	N
AK-299-V-163	Partial left? Rib		14.9 N	N	L
AK-299-V-164	Partial left Frontal		5.5 N	N	N
AK-299-V-165	NOT BONE				
AK-299-V-166	Part. Manal Ungual		3 N	N	L
AK-299-V-167	IND bone fragment		4.1 N	N	L-M
AK-299-V-168	Part. Rt. Prootic		3 N	N	L
AK-299-V-169	Partial Ischium	24.0, 5.4	N	N	S-M
AK-299-V-170	Head of Right Rib		9.5 N	N	L
AK-299-V-171	Rt. Pedal ph2,dll		3.6 N	N	L
AK-299-V-172	Pedal Ungual, dll ?		3.3 N	N	L
AK-299-V-173	IND bone mass		6.7 N	N	L
AK-299-V-174	Part.caud.neur sp.		2.6 N	N	L-M
AK-299-V-175	Caudal chevron		7 N	N	L
AK-299-V-176	Neural spine				
AK-299-V-177	Right Fibula		36.4 N	N	L-M

LISCOMB

BONEBED

ANALYSIS 2004

S	T,C	N	Highly crushed & fractured	
S-M	T	N	Neural canal wall, no zygapophysis	
S	T,C	N	Most of distal portion; highly fractured	
S	T,L	N	Posterior portion most complete; mod.fract.	
S	T	N	RNS Left manus digit III?	
S-M	T,L	N		
S-M	T	N		
M-HP	T,L,S	N	Partial posterior shaft + ant. Base; crushed	
S	T,C,L	N	Head & tubercle; highly crushed	
N	L	N	Ventral-distal margin gone; well preserved	FT
S	T	N	Almost complete	FT
M-HP	T,C	N	Highly crushed & fractured	FT
S	T	N	Base with part. Zygapophyses;	
S	T,L	N	dist. Incomp Most of distal process	FT
M-HP	T,L,C	N	RNS Mid shaft and proximal end highly crushed	FT

AK-299-V-178	Part. Left Tibia	38.5 N	N	L-M
AK-299-V-179	Left Ulna	26 N	N	L-M
AK-299-V-180	Right Fibula	35 N	N	L-M
AK-299-V-181	Caudal centrum	4.3 N	N	L
AK-299-V-182	Part. Left Humerus	7.8 N	N	L
AK-299-V-183	Left Squamosal	7.7 N	N	M
AK-299-V-184	Part. Pedal Phalanx	3.3 N	N	L
AK-299-V-185	Neural arch base	3.3 N	N	L-M
AK-300-V-001	Partial dorsal Rib	11.2 N	N	L-M
AK-300-V-002	Lft. Manus,ph1,dll	3.1 N	N	N
AK-300-V-003	Caudal centrum	3.5 N	N	L
AK-300-V-004	Dorsal Rib frag.?	2.3 N	N	L

M-HP	T,L,C	N	Proximal end--top of distal end highly crushed	FT
M-HP	T,L,C	N	Proximal third highly crushed and fractured	
M-HP	T,L,C	N	Proximal third highly crushed and fractured	
S	N	N	Anterior caudal; neural & rib bases unfused	
S	T,L,C	N	Distal third; anterior side highly crushed	
S-M	T,C	N	Complete, except for sides of quad.	
S	T	N	Articul Half of proximal end	
S-M	T,C	N	Neural base unfused	
HP	T,L,C	N	Mid rib; highly compressed & fractured; reworked?	
N	T	N	Excellent preservation	
HP	T,C	N	Highly compressed & fractured; neur.bases unfused	
S	T,C	N	Near base of head? Partly crushed	in matrix

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ANALYSIS 2004

AK-300-V-005	IND bone fragment	2.6 N	N	M-H
AK-300-V-006	OT	2.1 N	N	N
AK-300-V-007	Part.pedal ph1,dII,!V	4.1 N	N	?
AK-300-V-008	Pedal Ph.1, dIII	6 N	N	L
AK-300-V-009	OT	2.5 N	N	L
AK-300-V-010	OT	3.5 N	N	N
AK-300-V-011	Neural arch frags. 1.7,1.3	N	N	L
AK-300-V-012	Caudal Neural spine	3.9 N	N	?
AK-300-V-013	OT	2.9 N	N	N
AK-300-V-014	Pedal Ph.1,DIII?	2.9 N	N	?
AK-300-V-015	OT	1.9 N	N	N
AK-300-V-016	Carpal	2.1 N	N	L
AK-300-V-017	Troodon formosus			
AK-300-V-018	Hadrosaur tooth	1.7 N	N	N

M-HP	T	N	Reworked, allochthonous?	
M	T	N	Incomplete; distorted	
HP	T,C	N	Could be dll or IV; highly crushed & fractured	
M-HP	T,C,L	N	Crushed at proximal end; highly	
S	T	N	fractured, distorted	
N	T	N	Incomplete Broken--glued; incomplete	
S-M	T,L	N	Unfused base and wall fragment ?	FT
S-M	T,L,C	N	Crushed and highly fractured; in matrix	
S	T,S	N	Incomplete	
S-M	T	N	Plastically thinned & distorted prox- distally	
N	T	N	Incomplete; in matrix	
S	T	N	RARE See Liscomb bb tooth surv. & Fiorillo & Gangloff, 2000 Crown, mod. Dent., unfaceted; short root	;Digit and side unclear

AK-300-V-019	Hadrosaur tooth		1.8 N	N	N
AK-300-V-020	Hadrosaur tooth		2.2 N	N	N
AK-300-V-021	<i>Troodon formosus</i>				
AK-300-V-022	IND bone frags.	3.3, 3.0	N	N	?
AK-300-V-023	<i>Pedal Ungual, DII?</i>		3 N	N	N
AK-300-V-024	IND bone fragments	2.6, 2.0	N	N	M-H
AK-300-V-025	<i>Part. Rt. Astragalus</i>		6 N	N	L-M
AK-300-V-026	Part. Dorsal Rib		6.3 N	N	L
AK-300-V-027	Part. Caud. Chevr.		1.5 N	N	L
AK-300-V-028	Caudal centrum		4.1 N	N	L
AK-300-V-029	<i>Pedal Ungual, DIII</i>		3.3 N	N	L
AK-300-V-030	Neural spine frag.		2.1 N	N	L-M
AK-300-V-031	Part. Caud. Centr		3.8 N	N	L-M
AK-300-V-032	Hadro. Tooth root		2.4 N	N	L
AK-300-V-033	<i>Part. Rt. Astragalus</i>		5 N	N	L
AK-300-V-034	OT		3.7 N	N	N

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ANALYSIS 2004

S	T	N	Crown,mod. Dent., unfaceted; short root
S	T	N	Crown,wk. Dent., unfaceted; short root
			See Liscomb bb tooth surv. & Fiorillo & Gangloff,2000
HP	T	N	Reworked, allochthonous?
N	N	N	Excellent preservation
HP	T	N	Reworked, allochthonous?
M	T	N	Internal flang, no external half
S	T	N	Mid rib
S	N	N	One proximal articular side of Y
S	N	N	Mid caudal; neural bases unfused
S	T	N	One distal margin or wing broken off
S	T,L	N	Distal end of neural spine?
HP	T,L	N	Ventral half; poorly preserved
S-M	T	N	Transported, reworked?
M-HP	T,C	N	Mid portion with anterior process
N	T	N	Incomplete

LISCOMB

BONEBED

ANALYSIS 2004

AK-300-V-035	Part.Cerv.Zygopoph h	3 N	N	L
AK-300-V-036	Part. Caud. Chevr.	2.6 N	N	L
AK-300-V-037	Post.Caudal centr	3.1 N	N	L
AK-300-V-038	Quadrate frag. ?	4.8 N	N	L
AK-300-V-039	Caudal centrum	4 N	N	L-M
AK-300-V-040	Cervical Zygopoph.	3.7 N	N	L
AK-300-V-041	Neural arch frag.	1.7 N	N	L-M
AK-300-V-042	Troodon formosus			
AK-300-V-043	IND. Bone frag.	2.6 N	N	M-H
AK-300-V-044	Cervical Neur. Arch 5.6,6.4	N	N	L
AK-300-V-045	Part. Neural spine	3.8 N	N	L
AK-300-V-046	Part. Cerv. Zygop.	2.3 N	N	L
AK-300-V-047	Neural arch frag.	2.5 N	N	L
AK-300-V-048	Part. Caudal chevr.	3.8 N	N	N
AK-300-V-049	Part. Dorsal Rib	7.8 N	N	N
AK-300-V-050	Part. Dorsal Rib	5.8 N	N	N
AK-300-V-051	Dorsal Rib frag.	3.3 N	N	L-M

LISCOMB

BONEBED

ANALYSIS 2004

M	T,C	N	Postzygopophysis; crushed & fractured	
S	T	N	Half of proximal process or Y	
N	N	N	Mid-distal caudal; neural bases unfused	
S	T	N	Basal piece of pterygoid flange	
N	N	N	Mid caudal; neural bases unfused	
S	T	N	Postzygopophysis; fractured	
S	T	N	Partial half of arch, base unfused See Liscomb bb tooth surv. & Fiorillo & Gangloff,2000	
M	T	N	Reworked, allochthonous?	
S	T	N	Zygopophyses and unfused base	
N	T	N	Partial distal end; caudal vert?	
S	T	N	Prozygopophysis	
S-M	T	N	Arch wall, no base	
N	T	N	Distal process to base of Y	
N	T	N	Mid rib	FT
N	T	N	Mid rib	
			Mid rib; compressed & fractured	FT
S-M	T,C	N		

LISCOMB

BONEBED

ANALYSIS 2004

AK-300-V-052	Post.Caudal centrum	2.1 N	N	N
AK-300-V-053	IND. Bone frags.	6.2 N	N	N
AK-300-V-054	Part. Dorsal Rib	11 N	N	L
AK-300-V-055	Troodon formosus			
AK-300-V-056	Hadrosaur tooth	2.2 N	N	N
AK-300-V-057	Hadrosaur tooth	1.7 N	N	L
AK-300-V-058	Caudal centrum	4.4 N	N	L-M
AK-300-V-059	GASTROLITH?	2.5 N	N	M-H
AK-300-V-060	Troodon formosus			
AK-300-V-061	IND bone fragment	3.7 N	N	L-M
AK-300-V-062	Hadrosaur tooth	1.4 N	N	L

LISCOMB

BONEBED

ANALYSIS 2004

N	T	N	Distal caudal; Neur. Bases fused; 1/4 gone	FT
S	T,L,C	N	Scapula blade fragments?	
S	T,C	N	Right rib from head to mid distal; crushed in part	
			Liscomb bb tooth surv. & Fiorillo & Gangloff,2000;FT	
N	T	N	Crown; weak denticles; no facet; unus. Large	
S	T	N	Crown; weak denticles; no facet, apex broken	
S	N	N	Mid caudal; neural bases unfused	
S	T	N	Quartz ss. Pebble, polished; allochthonous See Liscomb bb tooth surv. & Fiorillo & Gangloff,2000	FT
S	T	N	Transported, reworked?	
S	T	N	Crown;weak denticles; no facet	

LISCOMB

BONEBED

ANALYSIS 2004

AK-300-V-063	Dorsal rib fragment	2.2 N	N	L
AK-300-V-064	Partial Radius	15.4 N	N	L
AK-300-V-065	IND bone fragment	5.6 N	N	H
AK-300-V-066	Hadrosaur tooth			
AK-300-V-067	Part. Dorsal Rib	5.2 N	N	N
AK-300-V-068	Caudal centrum			
AK-300-V-069	Part. Neural arch	3 N	N	L
AK-300-V-070	Part. Sacral?centr.	5.2 N	N	M-H
AK-300-V-071	Left Femur	53 N	N	N
AK-300-V-072	Caudal centrum	4.9 N	N	L-M
AK-300-V-073	Theropod phalanx	1.7 N	N	L
AK-300-V-074	Caudal centrum	3.1 N	N	L
AK-300-V-075	Rt. half caudal arch	2 N	N	L
AK-300-V-076	Lft. Pes ph1, DII 5.7+	N	N	L

S	T,C	N	Mid rib; compressed & fractured	
S	T,L	N	Missing proximal end and some areas in between	
HP	T	N	Reworked, allochthonous? RNS	
N	T	N	Just below head; well preserved RNS	FT
N	T	N	Partial unfused base + partial wall Neural bases fused, broken;	
M-HP	T	N	post. Worn away Thinned & compressed laterally; highly fractured	; prozygopophysis FT
M-HP	T,L,C	N		
S	T	N	Anterior caudal; neural bases & lat. Proces. Unfused	
N	N	N	RARE, needs further comparison	
S	N	N	Mid caudal; neural bases unfused	
S	T	N	Unfused base and wall fragment ? Highly fractured;	
S-M	Y	N	ventral-prox. Part gone	

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BONEBED

ANALYSIS 2004

AK-300-V-077	Post.Caudal centr. Dorsal Rib fragment	5.5+	2.9 N	N	N
AK-300-V-078			N	N	L
AK-300-V-079	Left Tibia		43.5 N	N	?
AK-300-V-080	Part. Right Dentary		7.6 N	N	N
AK-300-V-081	Post.Caudal centrum		3.2 N	N	M-H
AK-300-V-082	Part. Caudal arch		1.9 N	N	L-M
AK-300-V-083	Lft. Manus,ph1,DIII		2.1 N	N	L
AK-300-V-084	Post.Caudal centrum		1.3 N	N	L
AK-300-V-085	Part. Caudal centr.		3.1 N	N	H
AK-300-V-086	Tyrannosaur prmax				
AK-300-V-087	Part. Right Frontal		9.8 N	N	L
AK-300-V-088	Pedal ? Ungual		3.3 N	N	L-M
AK-300-V-089	Post.Caudal centrum		2.7 N	N	L

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BONEBED

ANALYSIS 2004

S	T	N	Distal caudal; broken in half-- glued	
M-HP	T,C	N	Mid rib; crushed & compressed	
M-HP	T,L,C	N	Prox. End and shaft poorly preserved	FT
S	T	N	Coronoid process; highly fractured	
S-M	N	N	Mid-distal caud;neur.bases unfused;compress ed	
S	T	N	Half of arch; zygopophysis gone	
S	N	N	Excellent preservation	
S	N	N	Distal caudal; neural bases fused; excel. Preserv.	
M	N	N	Mid caudal; dorsal half rounded; allochthonous?	
M-HP	T,C	N	See Liscomb bb tooth surv. & Fiorillo & Gangloff	
S	T	N	Crushed, highly fractured	
S	N	N	Mid-distal caudal; neural bases fused	

AK-300-V-090	Dentary fragment		4.3 N	N	M
AK-300-V-091	Right Metatarsal IV 13+				
AK-300-V-092	Part. Basisphenoid	3.2,4.1	N	N	L-M
AK-300-V-093	Bone mass		10.3 N	N	L-M
AK-300-V-094	Caudal centrum		4.4 N	N	L
AK-300-V-095	Metacarpal		10 N	N	L
AK-300-V-096	Part. Metatars. II, lft. 14+		N	N	L
AK-300-V-097	Rt. Metatarsal II		12.4 N	N	L
AK-300-V-098	Part. Theropod tooth		1.1 N	N	N
AK-300-V-099	Dentary? fragment		6.7 N	N	L
AK-300-V-100	Partial radius?		10.7 N	N	L
AK-300-V-101	Caudal centrum		4.1 N	N	L
AK-300-V-102	Pedal Ph. 1, DIII		5.3 N	N	L
AK-300-V-103	Metacarpal ?		8.2 N	N	L-M
AK-300-V-104	Caudal centrum		3.4 N	N	L-M

M	T	N	Mid-anterior ventral groove of corpus	
			On exhibit	
S	T	N	Proximal articular end worn; lat. Processes gone	
M-HP	T,L,C	N	Dorsal rib + neural arch + lateral process	
S	N	N	Distal anterior caudal; insipient ribs; arch bases unfused	FT
S	T	N	Could be dIII	FT
M-HP	T,L,C	N	Prox. & distal ends present, shaft mostly gone	
S-MP	T,L,C	N	Shaft highly fractured en echelon--ice	FT
N	T,L	N	Crown chip, no carinae	
M-HP	T	N	Tooth rows	FT
S-M	T,L	N	Mostly shaft	
S-M	N	N	Mid caudal, neural bases unfused	FT
S-MP	T	N	Complete	
S	T,L	N	Matches non found thus far	
M	N	N	Mid caudal; neural bases unfused	

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ANALYSIS 2004

AK-300-V-105	Caudal centrum		4 Y?	N	L-M
AK-300-V-106	Part. Lat. Process		5.2 N	N	N
AK-300-V-107	Rt. ?Metacarpal V		3 N	N	M
AK-300-V-108	Lft. Pes,ph.1,DIV		4.5 N	N	M
AK-300-V-109	Caudal centrum		4 N	N	L
AK-300-V-110	Part. Rt. Metatars III		5.4 N	N	L
AK-300-V-111	Post. Caudal centrum		3 N	N	M-H
AK-300-V-112	Part. Dors. Arch		7.5 N	N	L
AK-300-V-113	Hadrosaur tooth		1.2 N	N	N
AK-300-V-114	Partial Ulna?	8.3+	N	N	L
AK-300-V-115	Hadrosaur tooth		1.7 N	N	L
AK-300-V-116	Pedal Ph. 1, DIII		5.5 N	N	M-H
AK-300-V-117	Part. Rt. Metatars III	8.2+	N	N	L
AK-300-V-118	Post. Caudal centr		3.1 N	N	N

M	N	N	Mid caudal; neural bases unfused	FT
S	T	N		
M	N	N	Allochthonous?	
M	T,L	N	Moderately fractured	
S	T	N	Anterior caudal; neural bases & lat. Proces. Unfused	
MP	T	N	Distal end	
S-M	N	N	Mid-distal caudal; neural bases unfused;allochthonous?	
S-M	T	N	Ant.dorsal; postzygapophs, lat process	
S	T	N	Crown with fine denticles; unfaceted	
S	T,L,S	N	Nothing diagnostic present; two pieces	
N	T	N	Crown with fine denticles; unfaceted	FT
S-M	N	N	Allochthonous-reworked?	
S	T	N	Distal end + part of shaft	FT
S	N	N	Mid-distal caudal; neural bases unfused	FT

AK-300-V-119	Post.Caudal centr		3.2 Y?	N	N
AK-300-V-120	Pedal Ph.3, digit III		4.5 N	N	N
AK-300-V-121	Left Metacarpal		3.3 N	N	L
AK-300-V-122	Pedal Ph.2 digit III		5 N	N	L
AK-300-V-123	Caudal centrum				
AK-300-V-124	Part. Left Quadrate		15.2 N	N	L
AK-300-V-125	Post.Caudal centrum		3 N	N	L
AK-300-V-126	Post.Caudal centrum		1.7 N	N	N
AK-300-V-127	Part. Hadros. Tooth		1.3 N	N	N
AK-300-V-128	Part. Pedal Ungual		3.5 N	N	L
AK-381-V-001	Dorsal Rib frag		3.3 N	N	L
AK-381-V-002	Part. Dorsal Rib		5.6 N	N	L
AK-381-V-003	Part. Dorsal Rib		4.3 N	N	N
AK-381-V-004	IND bone fragment		1.3 N	N	L-M
AK-381-V-005	Dorsal Rib fragment		3 N	N	L-M
AK-381-V-006	Part. Metacarpal		5.9 N	N	M-H
AK-381-V-007	Dorsal Rib frags.	2.6, 3.0	N	N	L
AK-381-V-008	OT		1.2 N	N	L

N	N	N	Mid-distal caudal; neural bases unfused	FT
N	T	N	Excellent preservation	FT
S	T	N	Digit IV or V Part of lateral margin broken away	FT
S	T	N	RNS	FT
S	T,C	N	Most of Pterygoid flange missing	
N	N	N	Mid-distal caudal; neural bases unfused	
N	T	N	Distal caudal; neural bases fused	FT
S	T	N	Crown highly fractured, incomplete	
S	T	N	Distal margins broken away	
N	T	N	Mid rib	
S	T,L	N	Partial rib head, fractured	
N	T,L	N	Partial rib head	FT
S	T,L	N		FT
S-M	T	N	Mid rib Distal end +part of shaft;	
M	T,L,S	N	allochthonous?	
M	T,L	N	Base of rib head	
N	T	N	Incomplete	FT

AK-381-V-009	Partial coracoid		3.7 N	N	L
AK-381-V-010	Part. Neural arch		1.3 N	N	L
AK-381-V-011	Part.Caud.Neur.sp.		2 N	N	M-H
AK-381-V-012	OT		2.2 N	N	L
AK-381-V-013	IND bone fragment		3.3 N	N	L
AK-381-V-014	IND bone fragment		5 N	N	M-H
AK-381-V-015	MATRIX				
AK-381-V-016	OT		4.1 N	N	L
AK-381-V-017	IND bone fragment		4.3 N	N	S-M
AK-381-V-018	OT		2.5 N	N	L
AK-381-V-019	IND bone fragment		2 N	N	L
AK-381-V-020	OT		1.3 N	N	N
AK-381-V-021	OT				
AK-381-V-022	Neural spine frag?		1.3 N	N	M
AK-381-V-023	Neural arch frag		2 N	N	L
AK-381-V-024	IND bone fragment		2.8 N	N	S-M
AK-381-V-025	OT	0.9Lx0.2W	N	N	L
AK-381-V-026	Caud. Chevron frag		2.4 N	N	N
AK-381-V-027	IND bone fragment		2.2 N	N	L
AK-381-V-028	OT	3.4Lx0.35W	N	N	L
AK-381-V-029	OT		1.2 N	N	N
AK-381-V-030	Part. Caudal Rib		2 N	N	L

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ANALYSIS 2004

M	T	N	Distal-ventral process ?	
S	T	N	Cervical ? base + neural canal wall	
S-M	T	N	Base of spine with partial	
S	T	N	zygapophyses	FT
			Incomplete	FT
			Pterygoid flange ?	
			Splenian?	
S-M	T,L	N	Angular?	FT
S-M	T,L	N	Allochthonous?	FT
S	T,L	N	Incomplete	
M-HP	T,L	N		
S	T	N	Incomplete	
S	T,L	N		
S	T	N	Incomplete	
			RNS	
S	T	N	Caudal vert?	
			Unfused base + neural canal wall;	
S	T	N	caudal	
S	T	N	Transported,	
N	T	N	reworked ?	
			Incomplete	
N	T	N	Upper part of distal process	
S	T,L	N	Caudal chevron?	
N	T,L	N	Incomplete	
S	T	N	Incomplete	
			Proximal end;	
S	T	N	unfused base	

AK-381-V-031	Dorsal Rib fragment	4 N	N	L
AK-381-V-032	IND bone fragment	1.7 N	N	L
AK-381-V-033	Part. Rt. Prefrontal	3.2 N	N	L
AK-381-V-034	IND bone fragment	2 N	N	L
AK-381-V-035	Part. Caudal chevr.	3.9 N	N	H
AK-381-V-036	IND bone fragment	1.6 N	N	L
AK-381-V-037	IND bone fragment	2.8 N	N	N
AK-381-V-038	IND bone fragment	1.9 N	N	M-H
AK-381-V-039	Caudal neur.sp.frag	1.5 N	N	L
AK-381-V-040	Part.Caud.Neur.sp.	3.6 N	N	L
AK-381-V-041	Prox. End of chevr.	1.8 N	N	L
AK-381-V-042	OT	1.5 N	N	N
AK-381-V-043	IND bone fragment	1.9 N	N	M
AK-381-V-044	Lft.Postorbital frag?	4.8 N	N	L
AK-381-V-045	Part.Caudal centr.	3.5 N	N	S-M
AK-381-V-046	OT	1.9 N	N	N
AK-381-V-047	Part. Dorsal Rib	4.4 N	N	N

S	T,L	N	Base of head--very young individual
S	T,S	N	Dorsal rib fragment?
S	T,C,L	N	
N	T	N	
M-HP	T,C	N	Reworked, allochthonous? Flattened
S	T	N	
S	T,L	N	Transported short distance if at all
H	T	N	Reworked, allochthonous?
S	T	N	Could be large ossified tendon
S	T	N	Postzygapophyses + half of neur. Spine
S-M	T	N	Half of Y.
S	T	N	Incomplete
M	T	N	Transported, reworked ? Note foramen--ventral-lateral orbit margin
S	T,L	N	Half gone; neural bases unfused
M	T	N	Two pieces, incomplete
S	T	N	
N	T	N	Near base of head

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ANALYSIS 2004

AK-381-V-048	Post.Caudal centr.	3.3 N	N	N
AK-381-V-049	Part. Caudal Rib	2.3 N	N	L
AK-381-V-050	Rt.Pes,Ph2,DII	3.8 N	N	N
AK-381-V-051	Part.Rt. Squamosal	6.3 N	N	L
AK-381-V-052	Dromaeosaurus			
AK-381-V-053	Caudal centrum	4.5 N	N	M-H
AK-381-V-054	Hadrosaur tooth	2.6 N	N	N
AK-381-V-055	OT	2.4 N	N	L
AK-381-V-056	Partial dorsal rib	7.2 N	N	L
AK-381-V-057	IND bone fragment	1.9 Y?	N	M
AK-381-V-058	Left tibia, NC	36.6 N	N	L
AK-381-V-059	Lft. Laterosphenoid	3.6 N	N	L
AK-381-V-060	Part.Caud.Neur.sp.	4.8 N	N	N

N	N	N	Mid-distal caudal; neural bases unfused
S	I	N	Base unfused
N	N	N	Excellent preservation
S	T,L	N	Dorsal anterior margin
			D. albertensis partial crown--tooth survey; F&G2000
M	T	N	Anter. caudal; neur. & transv. bases unfused;allochthon ous?
N	T	N	NC crown & root; root; lightly faceted
N	T,L	N	Incomplete
S	T,L,C	N	Mid rib; crushed in part
S	T,C	N	Most probably cranial; possible tooth depression
M-P	T,L,C	N	Distal articular end missing; badly crushed, fractured
S	T	N	Main part of body; note distinctive notch
N	T,L	N	Almost complete spine, postzygapophyses absent

AK-381-V-061	Part. Neural arch	5.4 N	N	L
AK-381-V-062	IND bone fragment	2.4 N	N	N
AK-381-V-063	Part. Rt. dorsal rib	14.2 N	N	L
AK-381-V-064	Dorsal rib frag.	3.4 N	N	L
AK-381-V-065	Part. Left Radius	10.2 N	N	L
AK-381-V-066	Part. Neural arch	2.3 N	N	L
AK-381-V-067	IND bone fragment	2.3 N	N	L-M
AK-381-V-068	IND bone fragment	2.6 N	N	L-M
AK-381-V-069	Post.Caudal centrum	2.6 N	N	N
AK-381-V-070	Ant. Caudal Rib	1.6 N	N	L
AK-381-V-071	Part. Cerv.Neur.arch	3.7 N	N	N
AK-381-V-072	Rt ? Nasal frag.	3.6 N	N	L-M
AK-381-V-073	OT	1.6 N	N	N
AK-381-V-074	IND bone fragment	4.1 N	N	M
AK-381-V-075	IND bone fragment	1.3 N	N	M
AK-381-V-076	IND bone fragment 1.9 largest	N	N	M-H

S	T,L	N	Rt. half of post.dors-sacral neural arch; unfused
S	T	N	Most probably cranial
S	T,S,L	N	Distal to base of head; fractured in several places
MP	T,C	N	Mid rib; interior absent, crushed
S	T,S	N	Distal 1/3 + four fragments
S	T	N	Caudal ? Unfused base & neural canal wall
S-M	T	N	
M-HP	T	N	
N	N	N	Mid-distal caudal; neural bases fused
S	N	N	
N	T	N	Prezygapophysis and unfused base
S	T	N	Part of ventral margin
N	T	N	Incomplete
M	T	N	Allochthonous?
M	T	N	Allochthonous?
S-M	T	N	Three pieces; allochthonous?

AK-382-V-001	Post.Caudal centrum		3.5 N	N	M-H
AK-382-V-002	Dorsal Rib fragment		3.4 N	N	L
AK-382-V-003	OT		5.1 N	N	L
AK-382-V-004	OT	2.0 longest	N	N	N
AK-382-V-005	Part. Caudal centr?		4.6 N	N	M
AK-382-V-006	Lft.Pes, Metatars.II		11.4 N	N	M
AK-382-V-007	Cervical centrum		4.2 N	N	L
AK-382-V-008	IND bone fragment		3.1 N	N	L
AK-382-V-009	Part. Caudal chevr.		2.7 N	N	N
AK-382-V-010	Part. Dorsal rib?		6 N	N	L
AK-382-V-011	Dorsal Rib fragment		2.2 N	N	L
AK-382-V-012	IND bone fragment		2.6 N	N	M-H
AK-382-V-013	Metacarpal		9.7 N	N	S-M
AK-382-V-014	Part. Caudal chevr.		4.2 N	N	L
AK-382-V-015	<i>Troodon formosus</i>				

M	T,L	N	Mid-distal caudal; 1/3 missing;allochthonous? Mid rib; weathering prior to burial?
M-H	T,L	N	Incomplete
S	T	N	Incomplete
N	T	N	1/3 present; distorted
S-MP	T,C	N	Almost complete
M-HP	T,L	N	Neural arch bases unfused;Transported?
M-HP	T	N	
M-H	T	N	Part of distal process, just below Y
S	T,L	N	Unusually small & narrow;early juv?
S	T	N	
S	T,L	N	Reworked, allochthonous?
HP	T	N	
M	T	N	
S	T	N	Distal process compressed laterally; base of Y See Liscomb bb survey & Fiorillo & Gangloff 2000

AK-382-V-016	Part. Dorsal rib	5.7 N	N	L
AK-382-V-017	IND bone fragment	1.7 N	N	L
AK-382-V-018	IND bone fragment	2.3 N	N	L
AK-382-V-019	IND bone fragment	2 N	N	M
AK-382-V-020	IND bone fragment	1.7 N	N	M
AK-382-V-021	Part. Caud. Chevr.	5.2 N	N	L
AK-382-V-022	Dorsal Rib fragm.	2 N	N	L
AK-382-V-023	IND bone fragment	1.5 N	N	N
AK-382-V-024	IND bone fragment	1.2 N	N	N
AK-382-V-025	OT			
AK-382-V-026	IND bone fragment	4.2 N	N	L
AK-382-V-027	Post.Caudal centr	1.9 N	N	L
AK-382-V-028	Neural arch frag.?	2.3 N	N	N
AK-382-V-029	IND bone fragment	1.5 N	N	L
AK-382-V-030	IND bone fragment	4.2 N	N	M-H
AK-382-V-031	IND bone fragment 1.1, 1.2	N	N	H
AK-382-V-032	IND bone fragment	1.3 N	N	M-H
AK-382-V-033	IND bone fragment	3.5 N	N	M
AK-382-V-034	Dorsal rib frag.	3.5 N	N	M

S	T,C	N	Mid rib, crushed & highly fractured
S	T	N	
S	T,L	N	Most probably cranial
M	T	N	Transported? Rib fragment; transported, allochthonous?
M	T	N	Highly fractured distal process
S-MP	T,L	N	
S	T	N	Part of small rib
S	T	N	Caudal chevron or caudal rib
S	T	N	
S-MP	T	N	RNS Cranial? Perhaps postorbital
S	T,C	N	Distal caudal; lateral distortion; bases fused
N	T,L	N	
S	T	N	Rib fragment ?
M-HP	T	N	Reworked, allochthonous?
HP	N	N	Reworked, allochthonous?
M	N	N	Reworked, allochthonous?
M-H	N	N	Allochthonous??
M-H	T	N	Allochthonous??

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AK-382-V-035	Dorsal rib frag.	3.8 N	N	M
AK-382-V-036	IND bone frags.	1.9 N	N	L
AK-382-V-037	Part. Basisphenoid	3 N	N	L-M
AK-382-V-038	Part. Rt. Jugal	11.3 N	N	L-M
AK-382-V-039	IND bone fragment	1.1 N	N	H
AK-382-V-040	OT	1.8 N	N	N
AK-382-V-041	IND bone fragment	1.6 N	N	N
AK-382-V-042	IND bone fragment	2.1 N	N	M-H
AK-382-V-043	Post.Caudal centrum	3 N	N	L-M
AK-382-V-044	Caudal centrum	3.9 N	N	L-M
AK-382-V-045	Part. Neural arch	3.7 N	N	L-M
AK-382-V-046	OT	3.3 N	N	N
AK-382-V-047	IND bone fragment	5.4 N	N	L-M
AK-382-V-048	IND bone fragment	1.6 N	N	L-M
AK-382-V-049	Left Ulna	23 N	N	L
AK-382-V-050	OT	1.3 N	N	L
AK-382-V-051	Partial neural arch	1.3 N	N	L
AK-382-V-052	Partial dorsal rib	5.5 N	N	L

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M-H	T,L	N	Allochthonous??
S-M	T	N	Two fragments
S-MP	T	N	Main body of element
S	T,L,C	N	Posterior flange incomplete; element crushed
M-H	T	N	Reworked, allochthonous?
N	T	N	Incomplete
S	T	N	Rib fragment?
HP	T	N	Reworked, allochthonous?
M	N	N	Mid-distal caudal; neural bases unfused
S	T	N	Ant-Caudal; neural & rib bases unfused
S	T	N	Cervical? wall with unfused base & neural canal
S	T	N	Incomplete
M-HP	T	N	Allochthonous
M	T	N	Allochthonous
M-HP	T	N	Proximal end highly crushed
S	T	N	Incomplete
S	T	N	Neural arch base unfused; partial NC wall
S	T	N	Mid-distal part; well preserved, fractured

AK-382-V-053	IND bone fragment		2.4 N	N	N
AK-382-V-054	IND bone fragment		2 N	N	L-M
AK-382-V-055	Part. Caudal centr.	1.6 largest	N	N	L
AK-382-V-056	Caud. Chevr. Frag.		1.3 N	N	N
AK-382-V-057	OT		1.3 N	N	L
AK-382-V-058	Rt.Pedal ph1,DII		5.4 N	N	L
AK-382-V-059	Post.caudal centrum		3.1 Y?	N	L
AK-382-V-060	OT		1.3 N	N	M
AK-382-V-061	Part. Dorsal Rib		6.5 N	N	L
AK-382-V-062	OT		2.6 N	N	L
AK-382-V-063	Post.Caudal cent.		3.3 Npathology	N	L
AK-382-V-064	Neural arch frag.		2.7 N	N	L
AK-382-V-065	Part. Caud. Neur.ar.		3.5 N	N	N
AK-382-V-066	Caud. Chevr. Frag?		1.7 N	N	L
AK-382-V-067	IND bone fragments	2.3, 3.9	N	N	L-M

S	T	N	Most probably NOT transported any distance
M	T	N	Allochthonous?? Four fragments; neural bases unfused; transp?
S-M	T	N	Part of distal process
N	T	N	Incomplete
S	T	N	Proximal end moderately fractured
S-MP	T,L	N	Mid-distal caudal; neural bases unfused
S	N	N	Incomplete
S	T,L	N	Just distal to base of head, well preserved
S	T,L,S	N	Incomplete
S	T	N	Mid-distal caudal; broken-glued; LESION
S	T	N	Cervical? wall with unfused base & neural canal
S	T,L	N	Both unfused bases + neural spine base with Zygaps.
M-HP	T,L	N	Allochthonous?? Distal end of rib or ventral end of quadrate;
M	T,L	N	

AK-382-V-068	Part. Caud. Neur.ar.		4.8 N	N	L
AK-382-V-069	IND bone fragment		2 N	N	M
AK-382-V-070	OT		2 N	N	L
AK-382-V-071	Left partial Scapula		22.2 N	N	L
AK-382-V-072	Post.Caudal centr.		0.8 N	N	N
AK-382-V-073	Dorsal Rib frag.		3.8 N	N	L-M
AK-382-V-074	Part. Cerv.neur.arch		2.7 N	N	L-M
AK-382-V-075	IND bone fragment		1.6 N	N	L-M
AK-382-V-076	OT		1.5 N	N	N
AK-382-V-077	OT	1.4, 1.5	N	N	L
AK-382-V-078	Left Humerus		21.5 N	N	L-M
AK-382-V-079	IND bone fragment		2.8 N	N	L-M
AK-382-V-080	Hadrosaur tooth		3 N	N	L
AK-382-V-081	Caud. Chevr.frag?		2.5 N	N	L
AK-382-V-082	Part. Metacarpal III		4.7 N	N	L-M
AK-382-V-083	Rt. Ectopterygoid?		2.6 N	N	L

S	T	N	Neural arch bases unfused; base of NS with Zygapos.
M-H	T,L	N	Allochthonous?
N	T	N	Incomplete
S	T,C	N	Highly fractured, crushed
N	T	N	Neural bases fused; distal caudal- -very young individ.
S	T,L	N	Base of head Prezygapophysis + unfused neural base
S	T	N	Neural base
S	T	N	Incomplete
N	T	N	Incomplete
S	T	N	Crushed body, articular ends well preserved
S	T,L,C	N	Transported? Highly faceted crown, complete root
S	T	N	Proximal articular head & shaft; caudal rib?
S	T	N	Right Manus, distal end of MC?
N	T	N	Anterior end of ECTP

AK-382-V-084	Rt. dorsal Rib		29 N	N	L-M
AK-382-V-085	Lft.Pes, Metatars.III		14.3 N	N	M
AK-382-V-086	Ant.dorsal arch frag.		2.4 N	N	N
AK-382-V-087	Part.Hadros.Tooth		1.5 N	N	N
AK-382-V-088	OT	1.4, 0.8	N	N	L
AK-382-V-089	Part. Cerv.?centr.		3 N	N	M
AK-382-V-090	Rt. Pes,ph1,DII		5.8 N	N	N
AK-382-V-091	OT		5.5 N	N	N
AK-382-V-092	Dorsal Rib frag.?		3.1 N	N	L
AK-382-V-093	Right Exoccipital		6.1 N	N	L
AK-382-V-094	OT				
AK-382-V-095	Dorsal Rib fragment		2.6 N	N	L-M
AK-382-V-096	Partial dorsal rib		8.7 N	N	L
AK-382-V-097	Part. Caudal chevr.		3.3 N	N	L
AK-382-V-098	Ant.caudal rib?		1.8 N	N	L-M
AK-382-V-099	Cervical neur. arch		3.4 N	N	L
AK-382-V-100	OT				
AK-382-V-101	OT				
AK-382-V-102	IND bone fragment		3.2 N	N	L

S-MP	T,C	N	Highly fractured and crushed in places	
MP	T,L	N	Moderately fractured--- permafrost pattern?	
S	T,L	N	Unfused neural base + partial neural wall	
S	T,L	N	Most of crown, unfaceted, fine denticles	
S	T	N	Three pieces, incomplete	
M-HP	T	N	Most of centrum missing	
N	T	N	A few fractures; well preserved	
N	T	N	Incomplete	
S	T,L	N		
S	T,C	N	Almost complete RNS	artial neural walls
S-M	T,C	N	Crushed, flattened	
S-M	T	N	Mid rib	
S	T	N	Most of distal process	
S	T	N	Very young individual?	
S-MP	T,C	N	Two unfused bases, part. RNS RNS	
S	T,L	N	Quadrata fragment?	

AK-382-V-103	Jaw fragment	2.9 N	N	L
AK-382-V-104	Part. Left Rib	10.4 N	N	L
AK-382-V-105	Troodon formosus			
AK-382-V-106	IND bone fragment	1.6 N	N	L
AK-382-V-107	Part. Neur.sp. Base	3 N	N	L
AK-382-V-108	OT	3.6 N	N	L
AK-382-V-109	Part.dorsal rib?	5.5 Y?	N	N
AK-382-V-110	Part. Caudal chevr.	5.5 N	N	L
AK-382-V-111	Cerv.vert postzyga	3.3 N	N	L
AK-382-V-112	Part.dorsal Rib	3.7 N	N	L
AK-382-V-113	Hadrosaur tooth	1.2 N	N	N
AK-382-V-114	Jaw fragment	2.6 N	N	L
AK-382-V-115	Rib fragment?	2.5 N	N	L,M
AK-382-V-116	Neural arch frags. 1.5,1.8	N	N	L-M
AK-382-V-117	IND bone fragment	1.8 N	N	L

S	T	N	Base of tooth rows-- -maxilla or dentary
S	T,L,C	N	Mid rib-base of head; crushed & fractured See Liscomb bb survey & Fiorillo & Gangloff 2000
S	T,L	N	
S	T	N	Ant.dorsal; postzygapophysis present
S	T	N	Incomplete
S	T,L	N	Possible single tooth mark
S	T,L	N	One side of Y with proximal base + part of dist proces.
S	T	N	
S	T	N	Mid rib
S	T	N	Most of crown, unfaceted, fine denticles
S	T	N	Maxilla or dentary, too small to be sure
S	T	N	
S-M	T	N	Partial unfused base & neural canal
S-M	T	N	Chip with no diagnostic traits
S	T	N	

AK-382-V-118	Part. Cervical arch	5.2 N	N	L
AK-382-V-119	Partial dorsal rib	4.5 N	N	L
AK-382-V-120	Gastrolith?	1.2		
AK-382-V-121	Partial Neural sp?	5.5 N	N	L
AK-382-V-122	OT	1.4 N	N	L
AK-382-V-123	Plant fragment			
AK-382-V-124	OT	1.3 N	N	N
AK-382-V-125	IND bone fragment	1.3 N	N	M-H
AK-382-V-126	OT	2.4 N	N	N
AK-382-V-127	OT	1.4 N	N	N
AK-382-V-128	Rib fragment?	3.5 N	N	H
AK-382-V-129	Rt.Pes Ph2-4,DIV	2.9 N	N	N
AK-382-V-130	IND bone fragment	2.3 N	N	L
AK-382-V-131	Dorsal Rib frags. 5.1largest	N	N	L
AK-382-V-132	Post.Caudal centr.	2.3 N	N	N
AK-382-V-133	OT	2.5 N	N	L
AK-382-V-134	IND bone fragment	2.7 N	N	L
AK-382-V-135	Hadrosaur tooth	1.4 N	N	N

S	T	N	Left half of arch with unfused base & postzygapoph	
S	T,L	N	Mid rib Polished chert pebble	
S-M	T,C	N	Crushed and highly fractured	
N	T	N	In matrix; incomplete	
N	T	N	In matrix; incomplete	
N	T	N	Incomplete	
HP	N	N	Reworked, allochthonous?	
N	T	N	Incomplete	
N	T	N	Incomplete	
HP	T	N	Reworked, allochthonous?	
N	N	N	Excellent preservation	
N	T	N		
S-MP	T,L,C	N	Mid rib; crushed & highly fractured	
N	N	N	Distal caudal; neural bases fused; excellent preserv.	
S	T	N	Incomplete	
MP	T	N	Incomplete	plete; post.& ant. Ends missing
N	T	N	Crown only, unfaceted, very fine denticles	

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AK-382-V-136	Part. Pedal Ph2,DIII		2.2 N	N	L
AK-382-V-137	IND bone fragment		1.5 N	N	L-M
AK-382-V-138	IND bone fragment		2 N	N	H
AK-382-V-139	Left Scapula		32 Y?	N	L
AK-382-V-140	OT		2.8 N	N	N
AK-382-V-141	Part. Supraoccipital		3.6 N	N	L
AK-382-V-142	OT	1.9,2.8	N	N	L
AK-382-V-143	OT		1.8 N	N	L
AK-382-V-144	Part. Dorsal Rib		3.5 N	N	L
AK-382-V-145	Part. Caud. Neur.ar.		4.5 N	N	L
AK-382-V-146	IND bone fragment		1.9 N	N	H
AK-382-V-147	Right Surangular		8.2 N	N	N
AK-382-V-148	Lft.Pes,Ph3-4,DIV		3.9 N	N	L
AK-382-V-149	OT		2.5 N	N	L
AK-382-V-150	Part.caud.neur.sp.		4.5 N	N	L
AK-382-V-151	OT		2.3 N	N	L
AK-382-V-152	Partial Rt.Scapula		39 N	N	N

S	T	N	Ph 2 or 3
S-M	T	N	Transported?
M-H	?	N	Reworked, allochthonous?
S-MP	T,L,C	N	Almost complete
N	T	N	Incomplete
S	T	N	Posterior flange missing
S	T	N	Incomplete, may be two separate
S	T	N	OT
S	T,S	N	Incomplete
S	T	N	Mid rib in matrix
S	T,C	N	Neur. Sp. base with poszygapophs + rt. wall +pzygap.
HP	N	N	Reworked, allochthonous?
N	T,C	N	Corpus crushed, well preserved otherwise
S	T	N	Complete and well preserved
S	T	N	Incomplete
S	T	N	distal portion above
S	T	N	postzygapophyses
S	T	N	Incomplete
MP	T,L,C	N	Anterior;punky; distort; Mapped, not float

AK-382-V-153	Left Tibia		40.8 N	N	S-M
AK-382-V-154	IND bone fragment		0.9 N	N	M-H
AK-382-V-155	Ant.dorsal neur arch		6.3 N	N	L
AK-382-V-156	Partial dorsal rib		6.6 N	N	L
AK-382-V-157	Part. Hadros. Root		1.2 N	N	L
AK-382-V-158	OTs	2.5 largest	N	N	L
AK-382-V-159	Part. Cervical arch		5 N	N	L
AK-382-V-160	Lft. Metatarsal III		16.6 N	N	L
AK-382-V-161	Right ILIUM		28.2 N	N	L
AK-382-V-162	Caudal Neural arch		8.1 N	N	L
AK-382-V-163	Partial dorsal rib		10.2 N	N	L
AK-382-V-164	OT		2.2 N	N	N
AK-382-V-165	OT		4 N	N	L
AK-382-V-166	IND bone fragment		1.5 N	N	M-H

M-HP	T,C	N	Crushed, compressed, abuted by 152; mapped
HP	N	N	Reworked, allochthonous?
S	T,L,C	N	Distal part of neural spine gone; bases unfused
N	T	N	Mid rib to base of head; well preserved
N	T	N	
S	T	N	Assemblage of five OT fragments in matrix
S	T,C	N	Right half with postzygapophysis & NC
S	T,C	N	Shaft crushed, repaired; Art. Ends good
S-MP	T,C	N	Seems to match 172 as part of same pelvis
S	T	N	One prezygopophysis gone; neural bases unfused
S	T	N	Mid rib; well preserved
N	T	N	Incomplete
S	T	N	Incomplete
M-H	N	N	Reworked, allochthonous?

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AK-382-V-167	IND bone fragment		1.4 N	N	H
AK-382-V-168	Dorsal Rib		1.8 N	N	L-M
AK-382-V-169	fragment		3.9 N	N	L-M
AK-382-V-170	Lft.Pes,Ph1,DIV		5.8 N	N	L
	Pes,Ph1, Digit III				
AK-382-V-171	COPROLITE?		5.8		
AK-382-V-172	Left ILIUM		39.4 N	N	L
AK-382-V-173	Partial Radius	18.4+	N	N	L
AK-382-V-174	IND bone fragment		2 N	N	M-H
AK-382-V-175	IND bone fragment		2.4 N	N	L-M
AK-382-V-176	Hadrosaur tooth				
AK-382-V-177	Hadrosaur tooth		2.2 N	N	N
AK-382-V-178	IND bone		9.3 N	N	L-M
AK-382-V-179	Ant.dors.neur.arch	6.7 largest	N	N	L
AK-382-V-180	IND bone fragment		2.4 N	N	L-M
AK-382-V-181	Part. Rt. dorsal rib		20 N	N	L
AK-382-V-182	IND BONE/DNA				

HP	N	N	Reworked, allochthonous?
M	T	N	Allochthonous??
S	N	N	
S	T,L	N	Highly fractured
			May be iron dumbell concretion
S	T,C	N	Only lacking ends of post.&ant. Processes Shaft crushed, repaired, distal end good
S	T,L	N	
S	T	N	Allochthonous?
S	T,L	N	MISSING
S	T	N	Crown, unfaceted, fine denticles; in matrix
M	T	N	UNUSUAL shape and margins Most of element present; bases unfused
S	T,L,C	N	
S	T	N	
S	T,L,C	N	Only distal end of head & distal end of rib gone On loan to Mary Schweitzer for DNA analysis

AK-382-V-183	IND BONE /DNA				
AK-382-V-184	OT		2.2 N	N	L
AK-382-V-185	Neonate Sternal ?		3.5 N	N	L
AK-382-V-186	Part. Caudal chevr.		5.7 N	N	L
AK-382-V-187	Part. Lft.Squamosal	3.2,3.5	N	N	L
AK-382-V-188	Lft Manus,Ph1,DII		3 N	N	L
AK-382-V-189	Post. Caudal centr.		2.1 N	N	N
AK-382-V-1FT	Part. Caud. NA		3.5 N	N	L
AK-382-V-2FT	Hadrosaur tooth				
AK-382-V-3FT	IND bone fragment		2.4 N	N	H
AK-382-V-4FT	Part.Dors.Rib head		4.5 N	N	M-H
AK-382-V-5FT	Dorsal Rib fragment		2.3 N	N	M
AK-382-V-6FT	IND bone fragment		2.8 N	N	H
AK-382-V-7FT	Part.Dorsal Rib?		6.5 N	N	L
AK-382-V-8FT	Part.Dorsal Rib		5.5 N	N	L

S	T	N	On loan to Mary Schweitzer for DNA analysis Incomplete
S	T,C	N	
S	T	N	Almost complete; proximal-medial
S	T,C	N	Two pieces, one is anterior process Excellent preservation
N	T	N	
N	N	N	Neural bases fused; distal caudal; excel. Pres. Base of spine with remnants of postzygapophs
S	T	N	Unusually small; RNS
HP	T	N	Reworked, allochthonous? Left rib with tubercle & part of head
MP	T,C	N	
M-HP	T,C	N	Allochthonous?? Reworked, allochthonous?
HP	N	N	
MP	T	N	If a rib, mid rib & possible pathologic example Distal end of rib; fairly well preserved
S	T,S	N	

AK-383-V-01	IND bone fragment N	N	N	N
AK-383-V-02	Rib fragment ? N	N	N	N
AK-383-V-03	Lft Manus,mcpll	8 N	N	L-M
AK-383-V-04	IND bone fragment N	N	N	N
AK-383-V-05	Rib fragment	2.5 N	N	L
AK-383-V-06	OT	1.3 N	N	N
AK-383-V-07	IND bone fragment N	N	N	N
AK-383-V-08	IND bone fragment N	N	N	N
AK-383-V-09	Partial lft. Quadrate	10.3 P?	N	M
AK-383-V-10	IND bone fragment 5 to 6	N	N	N
AK-383-V-11	Partl. Caudal chevr.	2.4 N	N	M-H
AK-383-V-12	Dorsal Neural spine	4.6greatest N	N	L
AK-383-V-13	COPROLITE ?	2.1 greatest N	N	N
AK-383-V-14	Rt. dorsal rib frag.	3.5 N	N	N
AK-383-V-15	Rt. dorsal rib frag.	4.4 N	N	L-N
AK-383-V-16	Dorsal rib section	8.4 N	N	L
AK-383-V-17	SEED	0.6 N	N	N
AK-383-V-18	Troodon formosus	1.1 N	N	N
AK-383-V-19	Cerv.Vert neur.arch	3.6 N	N	L

N	N	N	RNS
N	N	N	RNS
S	T	N	Good preservation, complete
N	N	N	RNS
S	L	N	Dorsal, mid rib ?
S	T	N	
N	C?	N	Highly fragmented, punky?
N	C?	N	Highly fragmented, punky?
N	T,S,L	N	Dorsal section Flat elongate see map
N	N	N	
M	T	N	Proximal end
M	T,L	N	Dorsal margin Rounded iron stone nodule?
N	N	N	
S	T,S	N	Proximal to mid rib Proximal end, base of head
N-S	T	N	
S	T,C	N	Mid rib
N	N	N	
N	N	T	Complete crown
S	T	N	Right prezygapoph present

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AK-383-V-20	IND bone fragment		2.7 N	N	L
AK-383-V-21	Part. Dorsal neur.sp		5 N	N	L
AK-383-V-22	Part. Ph.2-4dIV,pes		2.5 N	N	H
AK-383-V-23	Part.caud.neur.sp.		4.9 N	N	L
AK-383-V-24	IND bone fragment		1.8 N	N	N
AK-383-V-25	Caudal centrum		5 N	N	M-H
AK-383-V-26	Part. Neural arch	3 largest	N	N	L-M
AK-383-V-27	Rib fragment		1.9 N	N	L
AK-383-V-28	Part. Lft. MetatarsII	6.2 largest	N	N	L-M
AK-383-V-29	Dorsal vert. frags.	2.9 & 2	N	N	L-M
AK-383-V-30	Part. Dorsal lat proc		3.4 N	N	N
AK-383-V-31	Grp. IND bone frags	2 largest	N	N	L-M
AK-383-V-32	Mid Caudal centrum		3 N	N	L
AK-383-V-33	Part. Dorsal lat proc		4.2 N	N	L

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S	T,S	N	Rib or skull bone fragment
S	T,L	N	Proximal half of spine
M-H	L	N	Reworked, allochthonous
S	T	N	Rt. neural arch & postzygapophs present
S	T,L	N	Possible rib chip
M-H	T	N	Proximal, neural bases & lateral processes unfused; reworked?
M-H	T,L	N	Base of spine; possible cervical vertebra; allochthonous?
S	T,C	N	Distal segment
M-H	T,L	N	Distal end well preserved, proximal going to punk
S	T,L	N	Partial dorsal margin of spine & partial base of arch
N	T,L	N	Proximal segment of posterior dorsal
S-M	T,L	N	Found near ice lens
S	N	N	Neural bases unfused
S-M	T,S	N	Questionable ID

AK-383-V-34	Post.Caudal centrum		2.5 N	N	N-L
AK-383-V-35	Dorsal vert. lat proc		2.8 N	N	N-L
AK-383-V-36	Rt. dorsal rib segment		10.2 N	N	N
AK-383-V-37	Part. Caudal chevr.		4.6 Y?	N	L
AK-383-V-38	Dorsal Vert.lat.proc.		6.2 Y?	N	L
AK-383-V-39	Manus ph1,d III	2.3 x 2	N	N	L
AK-383-V-40	Hadrosaur Tooth		2.6 N	N	L
AK-383-V-41	IND bone fragment		2.6 N	N	M-H
AK-383-V-42	Caudal vert chevr. Caudal chevr.		3.9 N	N	N
AK-383-V-43	Frag.		1.5 N	N	L-M
AK-383-V-44	OT		2.3 N	N	N
AK-383-V-45	Pedal ph2,d II Part.		4 N	N	L
AK-383-V-46	Cerv.Neur.arch		4.3 N	N	L
AK-383-V-47	Neural arch frags.	3.2 largest	N	N	L
AK-383-V-48	Caudal centrum Caudal chevr.		2.7 N	N	N
AK-383-V-49	Frag.		3.9 N	N	L
AK-383-V-50	Pedal ph I,d III		6 N	N	L-M
AK-383-V-51	Part. Lft. Radius		13.1 N	N?	L

S	N	N	Mid to distal; bases unfused	
S	T,L	N	Distal end of lateral process	
S	T,L	N	Mid rib	
S	T,L	N	Rt. proximal half of chevron	
S	T	N	Almost complete, badly fractured	
S	N	N	Well preserved, almost complete	
S	T	N	Crown and root, crown faceted	
			Reworked, allochthonous?	
			Could be excavation tech.	
M	T,L	N		
S	T	N	Mid part of chevron	
S-M	T	N	Proximal end of chevron fork	neural bases unfused
N	T	N	Incomplete	
S	L	N	Well preserved, complete	
S	T	N	Rt. side with postzygapophysis	
S	T,L	N	Possible dorsal vertebra	
S	N	N	Prox.-mid caudal; neural bases unfused	
S	T	N	Most of distal post?	
M	N	N		
L-P	T,C,S	N	Possible trampling damage; distal 1/2 present	

AK-383-V-52	Left Metatarsal III	20.5 N	N?	L
AK-383-V-53	Prox.Caudal centrm	5.5 N	N	M
AK-383-V-54	OT	2 N	N	N
AK-383-V-55	Partial lft. Quadrate	6.5 N	N	L
AK-383-V-56	Part. Caudal centrum	3 N	N	M
AK-383-V-57	Metatarsal III frag. 5 longest	N	N	L
AK-383-V-58	Caudal centrum	2.5 N	N	N
AK-383-V-59	Caudal chevr. Frag.	3 N	N	N
AK-383-V-60	Dorsal rib section	3.8 N	N	L
AK-383-V-61	Part. Dorsal? Centr.	6.7 N	N	M
AK-383-V-62	Caudal centrum	2.4 N	N	N
AK-383-V-63	Part. Dorsal neur.arch 3 largest	N	N	L
AK-383-V-64	Part. Cerv.Neur.arch	2.2 Y?	N	L

L-P	T,L,C?	N	Proximal end punky, shaft and distal less altered
M-P	T,L	N	Interior punky; neural and lateral bases unfused
N-L	T	N	Large, incomplete Ventral 1/3 & part of pterygoid present
S	T,L	N	
M-P	N	N	Medial-distal;bases unfused,very punky
S	T	N	Part of margin of distal articular end
S	C	N	Medial-distal; neural bases fused
S	T	N	Part of distal post Distal part of left?
S	T	N	Rib Badly fractured, punky in part, ventral half
M-P	T,L	N	
S	N	N	Medial-distal, well preserved; neural bases fused Distal end of lateral process also
S	T,C,L	N	present ; wide
S	T	N	Prezygapophysis present ; narrow

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AK-383-V-65	Rib fragment?		2.8 N	N	L
AK-383-V-66	IND bone fragment		3.6 N	N	L
AK-383-V-67	Caudal chevr. Frag.		3.1 Y?	N	L
AK-383-V-68	OT		2.7 N	N	N-L
AK-383-V-69	OT		2.2 N	N	N-L
AK-383-V-70	Pedal ph 2 or3 ,D III		4.6 N	N	N-L
AK-383-V-71	Lft Laterosphenoid		4.1 N	N	N-L
AK-383-V-72	OT		1.7 N	N	L
AK-383-V-73	Right Astragalus		8.5 N	N	N-L
AK-383-V-74	IND bone fragment		3.3 N	N	L
AK-383-V-75	Neural arch frags. 1.8 largest		N	N	L
AK-383-V-76	IND bone fragments 2.3 largest		N	N	L
AK-383-V-77	Caudal chevr. Frag.		6.4 N	N	L
AK-383-V-78	Neural arch frags. 6.7 long.dim		N	N	L
AK-383-V-79	Post. Dorsal centrum		7.2 N	N	N-L
AK-383-V-80	OT		2.9 N	N	L
AK-383-V-81	Neural arch frag.		2.5 N	N	L
AK-383-V-82	OT		2.2 N	N	L
AK-383-V-83	Rib fragment		3 N	N	N
AK-383-V-84	Hadrosaur Tooth		0.7 N	N	N

M-P	T	N	Mid rib?
M	T,L	N	
S	T	N	left side of proximal fork; tooth indentation? ; wide
S	T	N	Incomplete
S	T	N	Incomplete
S	T	N	Well preserved
S	T	N	Sutures show little if any abrasion
S	T	N	Incomplete
S	T,C	N	Highly fractured Could be rib fragment
S-M	T	N	
S	T,L	N	
S-M	T,L	N	
S	T,L	N	Distal pole almost complete Right side with most of lat.
S	T,C	N	Process & PZs Fairly complete; lateral & neural bases unfused
S-M	T,L	N	
S	T	N	Narrow; incomplete
S	T	N	
S	T	N	Narrow; incomplete
S	T	N	Near base of head Faceted crown, root missing
S	T	N	

AK-383-V-85	Rib fragments?	both 1.5	N	N	L-M
AK-383-V-86	Partial dorsal rib		9.3 N	N	L-M
AK-383-V-87	Rt.postDorsal?Rib		9.1 N	N	L
AK-383-V-88	Lft. Dorsal rib frag.		2.9 N	N	N
AK-383-V-89	IND bone fragment		1.6 N	N	M-H
AK-383-V-90	Rib fragments	N	N	N	N
AK-383-V-91	Rib fragments	N	N	N	N
AK-383-V-92	Rt. pedal ph1 d IV		5.9 N	N	L
AK-383-V-93	OT		3.7 N	N	L
AK-383-V-94	Caudal chevr. Frag.		2.1 N	N	L
AK-383-V-95	Dorsal rib fragment		3 N	N	L-M
AK-383-V-96	Caudal chevr. Frag.		3 N	N	L
AK-383-V-97	Dorsal rib fragment		2.5 N	N	L
AK-383-V-98	Dorsal rib fragment		4.4 N	N	N-L
AK-383-V-99	Dorsal rib fragment		3.4 N	N	N-L
AK-383-V-100	Right femur		43.7 N	N	?
AK-383-V-101	Dorsal rib section		3.7 N	N	L-M
AK-383-V-102	Rt. dorsal rib frag.		5.3 N	N	N-L

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M	T	N	Part of #s 86 and 87?
S	T	N	Distal portion of left rib?
S	T	N	Most of rib; tubercle but head missing
S	T	N	Proximal below head
M	T	N	Reworked allochthonous?
N	N	N	RNS
N	N	N	RNS
S	T	N	Almost complete; prox. Part highly fractured
S	T	N	Narrow; incomplete
N	T	N	Lft. Proximal articular end
S	T	N	Proximal, below head
N	T	N	Rt. Proximal articular end
S	T	N	
N-S	T	N	Left mid rib section
N-S	T	N	Right proximal, below head
M-P	T,L,C?	N	Total length close to original; proximal 1/3 powder; NM
S	T	N	Paleopathology, healed break
S	T,L	N	Proximal, just below head

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AK-383-V-103	Rt. dorsal rib head	8.5 N	N	L
AK-383-V-104	Cervical postzyga.	3.3 N	N	N-L
AK-383-V-105	Dors vert. ns frag.	3.5 N	N	L
AK-383-V-106	Post. Dorsal cent.	6.8 N	N	L-M
AK-383-V-107	Left Coracoid	7.8 N	N	L
AK-383-V-108	Partial right scapula	14 N	N	N-L
AK-383-V-109	Right scapula	30 N	N	L
AK-383-V-110	Right dorsal rib	23.5 N	N	N-L
AK-383-V-111	Pedal ph 2 or3 ,D III	15.5 Y?	N	N
AK-383-V-112	Mid Caudal centrum	3.5 N	N	M-H
AK-383-V-113	CHERT PEBBLE	1.1 N	N	H
AK-383-V-114	Post. Caudal centr.	2 N	N	N
AK-383-V-115	OT	3.1 N	N	L
AK-383-V-116	Mid Caudal centrum	4.1 Y?	N	N-L
AK-383-V-117	Partial metacarpal II	5.3 N	N	L

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ANALYSIS 2004

S	T	N	Part of same rib as 102?	
S	T	N	Left postzygapophysis	
S	T	N	Distal margin of neural spine	
M-P	T,C	N	Neural and lateral bases unfused	
M-P	T,C	N	Almost complete; part of 108?	
M-P	T,C,L	N	Medial-posterior section; related to 107?	
S-P	T,L,C?	N	Almost complete; anterior end poorly preserved	
S	T,L	N	Almost complete, distal tip missing	
S	T	N	Bite mark or other lesion	
S	N	N	Beveled; bases unfused;	
S	N	N	Allochthonous? Well rounded; moderate sphericity	
N	N	N	Neural bases unfused;well preserved	
S	T	N	Broad, incomplete Lateral distortion;	FT
S	T	N	neural bases unfused	
S	T	N	Proximal half present	

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ANALYSIS 2004

AK-383-V-118	Partial ungual		2.8 N	N	N
AK-383-V-119	IND bone fragment		2.1 N	N	N
AK-383-V-120	Hadrosaur Tooth		1.3 N	N	N
AK-383-V-121	Dorsal rib fragment		2 N	N	N
AK-383-V-122	Ossified tendons	1.9-3.2	N	N	L
AK-383-V-123	Partial caudal centr		5.2 N	N	M
AK-383-V-124	Caudal centrum		2.2 N	N	L
AK-383-V-125	Hadrosaur Tooth		0.07 N	N	N
AK-383-V-126	Caudal neur.arch		5.6 N	N	N-L
AK-383-V-127	Pedal ungual D III		4.1 N	N	L
AK-383-V-128	IND bone fragment		1.2 N	N	N-L
AK-383-V-129	Dsl rib & Metatarsal	5 & 6.4	N	N	N-L
AK-383-V-130	Cerv. neur.arch half		3 N	N	L
AK-383-V-131	Neural arch frag.		2.6 N	N	N
AK-383-V-132	Lft. Pedal ph2-4DIV		3.8 N	N	N

S	T,L	N	Proximal half present
S	T,L	N	
S	T	N	Crown only; no facet or other wear
S	T	N	
S	T	N	All narrow and incomplete
H-P	T	N	Mid-caudal; neur. Bases unfused; allochthonous?
N	N	N	Distal position; neural bases fused
S	T	N	Partial crown; unfaceted
S	T	N	Most of neural spine with postzygapophs
S	N	N	Well preserved
S	T	N	
S-M	T	N	Mid rib section; on prox. End of metatarsal IV
S	T	N	Most of right half with unfused base
S	T	N	
S	T	N	Excellent preservation with detail

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ANALYSIS 2004

AK-383-V-133	Ant. Caudal centr.		4.6 N	N	L
AK-383-V-134	Rt. metatarsal II	8.4 largest	N	N	L
AK-383-V-135	Head, lft.doral rib		5.3 N	N	N
AK-383-V-136	Part.Dors.Neur arch		3.3 N	N	L
AK-383-V-137	<i>Troodon formosus</i>		0.8 N	N	N
AK-383-V-138	OT		4.1 N	N	L
AK-383-V-139	IND bone fragment		3.7 N	N	N
AK-383-V-140	<i>Troodon formosus</i>		0.8 N	N	N
AK-383-V-141	IND bone fragment		2.5 N	N	L
AK-383-V-142	Part. Metacarpal IV		3 N	N	L
AK-383-V-143	Post.Caudal centr.		2.8 N	N	N
AK-383-V-144	Hadrosaur Tooth		1.1 N	N	L
AK-383-V-145	Lft. Dorsal rib frag.		6.1 N	N	N
AK-383-V-146	Pedal phalanx 1d II		5.6 N	N	N
AK-383-V-147	<i>Early Juv. Rib segm</i>		3 N	N	L
AK-383-V-148	OT		2.3 N	N	L

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S	N	N	Orbicular high density, neur. & lat. Bases unfused
M-P	T,L	N	Partial, badly fragmented Tubercle present but not prox. End of head
S	T	N	One half of arch; prezygapophysis present
S	T	N	Part. Mesial crown; lingual & apical facets
N	T	N	
S	T	N	Narrow; incomplete
S	T,L	N	Long bone, possibly radius
N	T,L	N	Partial crown chip
S	T	N	
S	T	N	Proximal end present Mid-posterior section; well preserved
S	T	N	Incomplete
S	T	N	Distal segment
S	T	N	Right pes; unusual high density Possible very young dorsal rib segment
S	T	N	
N	T	N	Narrow; incomplete

AK-383-V-149	IND bone fragment		2.3 N	N	L-M
AK-383-V-150	IND bone fragments	0.6-7.3	N	N	M
AK-383-V-151	Partial caudal centr		2.1 N	N	M-H
AK-383-V-152	Part. Caudal chevr.	4.9 largest	N	N	L
AK-383-V-153	IND bone	N	N	N	N
AK-383-V-154	Dorsal rib section		4.4 N	N	N-L
AK-383-V-155	Left Jugal		15 N	N	N
AK-383-V-156	CARPAL?		3.1 N	N	?
AK-383-V-157	Part. Cerv.Neur.arch		3.1 N	N	L
AK-383-V-158	Partial caudal vert.		2.7 N	N	N
AK-383-V-159	IND bone fragment		6.2 N	N	H
AK-383-V-160	MISSING				
AK-383-V-161	Ironstone pebble		2.7 N	N	H
AK-383-V-162	Caudal centrum ?		2.3 N	N	H

M-P	T	N	Most probably deeply-weathered rib fragment
M-P	T	N	
M	T	N	Half of centrum; transported and modified Pieces scattered on surface of matrix
S-M	T,C,L	N	
N	N	N	RNS
M	T,L	N	On matrix Nearly complete, sutures well preserved
N		N	May be highly abraded bone fragment
?	?	N	Left side with base and prezygapophysis
S	T	N	
N	N	N	Mid-post.; bases & part of neural arch present, fused
M-P	T	N	Reworked, allochthonous? Deeply weathered
N	N	N	Highly rounded and high sphericity Highly modified; allochthonous-- reworked?
M-P	T	N	

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AK-383-V-163	Cervical postzyga.	1.9 N	N	L
AK-383-V-164	Dorsal rib section	4 N	N	L
AK-383-V-165	Dorsal rib section	3 N	N	L
AK-383-V-166	Caudal centrum	3.5 N	N	L
AK-383-V-167	Neural arch base	2 N	N	L
AK-383-V-168	Metacarpal section	5.1 N	N	L
AK-383-V-169	Lft. Dorsal rib sect.	10.3 N	N	L
AK-383-V-170	Part. Caudal chevr.	6.9 N	N	N-L
AK-383-V-171	Right Tibia	39 N	N	L
AK-383-V-172	Tyrannosaur tooth	4.2	SEE TOOTH SURVEY	
AK-383-V-173	Right quadrate	15.6 N	N	L
AK-383-V-174	Part. Right quadrate	5.0 + 9.5	N	L
AK-383-V-175	Tyrannosaur tooth	6.5	SEE TOOTH SURVEY	
AK-383-V-176	Troodon formosus Caudal chevr.		ON LOAN	
AK-383-V-177	Frag.	3.3 N	N	L

S	T	N		
S	T	N	Distal portion of left rib?	
S	T	N	Proximal portion with tubercle, not rest of head, right	
S	N	N	Mid-posterior; neural bases unfused; well preserved	
S	T	N	Incomplete	
S	T,S	N	No articular ends	
S	T	N	Distal segment Missing left proximal bar and tip of distal pole	
S	T	N	Distal 1/3 well preserved, proximal in poor shape	FT
S-P	T,L	N	Crown with missing apex	
S	T,L	N	Well preserved and highly fractured; partial pterygoid	
S	T,L,C	N	Dorsal & ventral ends present, part. Pterygoid	
			Complete crown	
S	T	N	Distal pole almost complete	

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AK-383-V-178	Part. Drs.neur.arch		5.6 N	N	L
AK-383-V-179	GASTROLITH ?		1.7 N	N	H
AK-383-V-180	Dromaeosaurus		3.5 N	N	N
AK-383-V-181	SACRUM	39 x 74	N	N	L
AK-383-V-182	Ant. Caudal centr.		4.8 N	N	M
AK-383-V-183	Troodon formosus		1 N	N	N
AK-383-V-184	Partial lft. Quadrate		7.8 N	N	L
AK-383-V-185	Metatarsal III		8.6 N	N	N
AK-383-V-186	Right Quadrate	8.8 largest	N	N	L
AK-383-V-187	CARPAL		1.5 N	N	N
AK-383-V-188	IND bone fragment		3.6 N	N	M-H
AK-383-V-189	Part. Laterosphenoid		3 Y?	N	N
AK-383-V-190	Dorsal rib fragment		1.9 N	N	L
AK-383-V-191	Part. Lft. MetatarsII		6.4 N	N	L
AK-383-V-192	Post.Caudal centrum		3.5 N	N	L
AK-383-V-193	Part. Metatarsal III		7.5 N	N	L

S	T	N	Prezygapoph., base of neural spine
N	N	N	Chert, highly polished
N	T	N	D. albertensis; mesial crown
S-P	T,L	P	Half excavated in permafrost outside quarry
M	T	N	Neural & lateral bases unfused; poorly preserved
N	T	N	Partial crown; medial lingual facet
S	T,C,L	N	Ventral 1/3 with partial pterygoid
N	T	N	Complete, well preserved
S	T	N	Dorsal & ventral ends present, almost complete
S	N	N	
M	N	N	Allochthonous? Definitely a skull fragment-- suspect ID
S	T	N	
S	T	N	
S-M	T	N	Proximal end. #129 attached
S	T	N	Mid-posterior section laterally distorted
M-P	T,L	N	Distal & proximal ends, much of middle gone

AK-383-V-194	Ulnar fragments	4.4 largest	N	N	L-M
AK-383-V-195	Partial parietal		2.6 N	N	N
AK-383-V-196	Metatarsal III frag.		3.9 N	N	L
AK-383-V-197	Dorsal rib frags.	2.7-1.0	N	N	N
	Caudal chevr.				
AK-383-V-198	Frag.	2.4-2.8	N	N	L
AK-383-V-199	IND bone frags.	2.3-2.7	N	N	L
AK-383-V-200	Cranial fragment		1.5 N	N	N
	Caudal chevr.				
AK-383-V-201	Frag.	1.9 & 1.5	N	N	N
AK-383-V-202	Pedal Ph2,3,4d IV		2.3 N	N	L
AK-383-V-203	Metacarpal II frags. 1.5-1.8		N	N	L
AK-383-V-204	Cerv. neur.arch half		2.6 N	N	L
AK-383-V-205	IND skull fragment?		2.3 N	N	N-L
AK-383-V-206	IND bone fragment		2 N	N	L-M
AK-383-V-207	OT		1.5 N	N	L-M
AK-383-V-208	IND bone fragment		1.5 N	N	M
AK-383-V-209	Lft. Dorsal rib sect.		4.3 N	N	N
AK-383-V-210	Cervical postzyga.		2.5 N	N	L

S-M	T	N	Partial distal end & part of mid-prox. Shaft	
N	T	N	Posterior half; sutures show little if any wear FT	
S-M	T	N	Distal articular margin	
S	T	N		
S	T	N		
N	T	N	Well preserved suture	
S	T	N	Both proximal bases present	
M	T	N	Right pes? Interior half of element	
S	T	N	Pieces of proximal & distal ends	
S	T	N	Unfused base with partial arch	
N-S	T	N	No sutures present	
S-M	T	N	Allochthonous?	ON LOAN
S	T	N	Narrow; incomplete	Pathologic
S-M	T	N	Allochthonous?	
N	T	N	Part of head with tubercle present	
N	T	N		

AK-383-V-211	Part. Basisphenoid		3.4 N	N	N-L
AK-385-V-001	Troodon formosus				
AK-385-V-002	Dromaeosaurus		3.7 N	N	N
AK-385-V-003	IND bone frags.	1.4-3.6	N	N	M-H
AK-385-V-004	Pedal phalanx1D III	7.0-8.6	N	N	L
AK-385-V-005	Part. metacarp. III		2.7 N	N	N-L
AK-385-V-006	IND bone fragment		2.9 N	N	N-L
AK-385-V-007	Metacarp. IV, lf manus		7.3 Y BINGO	N	L
AK-385-V-008	Pedal ungual, D III		3.5 N	N	N-L
AK-385-V-009	Part. Right humerus		13 N	N	L
AK-385-V-010	Pedal Ph 2-4,D IV		2.6 N	N	L
AK-385-V-011	Left Jugal section		6.7 Y BINGO	N	L
AK-385-V-012	IND bone frag.		5.1 Y BINGO	N	N

N	T	N	Sutures show little if any abrasion
N	T	N	Tooth crown Mesial crown & partial root; no facets
H-P	T	N	Allochthonous or deeply weathered in place Well preserved detail, highly fractured
S	T,L	N	Proximal end; left manus
S	T	N	
S	T	N	Distal 2/3rds; bite marks near articular end Right "wing & margin absent, well preserved
S	T,L	N	Distal half; highly fractured Left half; low density; well preserved
N	T	N	Anterior 1/3; bite marks; highly fractured
S	T,C	N	Possible lat. Process with tooth indent. & unfused base
N-S	T	N	

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ANALYSIS 2004

AK-385-V-013	Lt dorsal rib section		3.9 N	N	L
AK-385-V-014	Part.Lft.postorbital		6.4 N	N	N-L
AK-385-V-015	OT		3.7 N	N	L
AK-385-V-016	Post. Caudal centru		2.5 N	N	N
AK-385-V-017	Metatarsal III		23 N	P?	L
AK-385-V-018	Jaw fragments	2.3-3.7	N	N	L-M
AK-385-V-019	Dorsal rib frag.		2.1 N	N	N-L
AK-385-V-020	IND bone or spine	5.3 & 5.5	N	N	M-H
AK-385-V-021	Hadrosaur tooth		1.3 N	N	L
AK-385-V-022	Dorsal rib section		4.4 N	N	L
AK-385-V-023	Chevr.&neur.ar.frgs	1.2-3.0	N	N	L
AK-385-V-024	Post.Caudal centrum		1.9 Y?	N	N-L
AK-385-V-025	Rt.Pedal ph2-3d III		4.5 N	N	L

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ANALYSIS 2004

S	T,L,C	N	Base of head with tubercle
S	T,L	N	Missing end of orbit bar& post proc;sutures with ANW
S	T	N	Narrow and incomplete Excellent preservation; unfused neural bases
N-S	N	N	Right pes; shaft & proximal section highly fractured
S-P	T,L,C,S	N	
S-M	T,L	N	
N	T	N	
M-H	T	N	Could be a pathologic bone specimen
S	T	N	Crown only, apex broken not faceted
S	T	N	Mid-distal rib portion One base, most of distal pole, part. Base of neur. Spine
S-M	T,L	N	Post. caudal; possible bite score; neur. Bases
N	N	N	unfused
N	T	N	Well preserved and complete

LISCOMB

BONEBED

ANALYSIS 2004

AK-385-V-026	Right dorsal rib	24 N	N	L
AK-385-V-027	Left palatine ?	3 N	N	L
AK-385-V-028	Head of rt. dorsal rib	10.5 Y?	N	L
AK-385-V-029	IND bone fragment	2 N	N	N
AK-385-V-030	Post.Caudal centrum	2.3 N	N	N
AK-385-V-031	Dorsal rib section	4.4 N	Y?	L
AK-385-V-032	IND bone fragment	1.5 N	N	M-H
AK-385-V-033	Matrix clast	1.3 N	N	N
AK-385-V-034	IND bone fragment	1.9 N	N	L
AK-385-V-035	Prox.chevr. Frag.	1 N	N	N
AK-385-V-036	Prox.chevr. Half	1.6 N	N	L
AK-385-V-037	Neural arch base	2.1 N	N	L
AK-385-V-038	Caudal chev. Post	7.6 N	N	L
AK-385-V-039	Caudal chev. Frag.	1.8 N	N	L

S-P	T,C,L	N	Tubercle and distal tip absent; head badly crushed
S	T,L	N	
S-M	T,S,L	N	Tubercle absent; two parallel drag tooth marks?
S-M	T,L	N	
N	N	N	Excellent preservation; unfused neural bases
S-M	T,C,L	N	Mid-distal rib portion; crushed laterally--compression
S-M	T	N	Allochthonous??
N	N	N	Subrounded; low sphericity
M-H	T,L	N	Piece of rib?
S	T	N	Caudal chevron articular base or end of strut
S	T	N	Left half of caudal chevron proximal strut
S	T	N	Dorsal vertebra arch unfused base
S	T	N	Distal post and part of base of Y;unusually large
N	T	N	Base of chevron distal post.

LISCOMB

BONEBED

ANALYSIS 2004

AK-385-V-040	Dors.vert lat.proc.	3.9 N	N	L
AK-385-V-041	Dorsal rib section	5.7 N	N	L
AK-385-V-042	IND bone fragment	3.5 N	N	M-H
AK-385-V-043	IND bone fragment	1.3 N	N	L-M
AK-385-V-044	Lft. Manal ph2 d II	1.7 N	N	N-L
AK-385-V-045	Hadrosaur tooth	1.2 N	N	N
AK-385-V-046	Rt. dorsal rib sect.	10.7 N	N	L
AK-385-V-047	IND bone fragment	3.6 N	N	M-H
AK-385-V-048	OT	1.9 N	N	N
AK-385-V-049	1/2 caud. Neur.arch	4.3 N	N	N
AK-385-V-050	Lft.Manal ung. D III	3.2 N	N	N
AK-385-V-051	Dors. Rib section	7.4 N	N	M
AK-385-V-052	Metacarpal V	4.4 Y	N	N

S	T,L	N	Distal half of process; highly fractured
M-H	T,L,C	N	Mid-distal rib section, highly fractured-crushed
S-M	T	N	Possible dorsal quadrate end; subrounded--allochth??
S	T	N	Possible piece of neural arch
N-S	N	N	Excellent preservation and detail; low density
N	T	N	Crown & partial root; unfaceted; on matrix
N-S	T,L	N	Base of head to mid-rib
S-M	T	N	Subrounded; low sphericity; alloc-reworked??
N	T	N	Narrow and incomplete
N	T,S,L	N	Right half with unfused base & half of neural spine
N	N	N	Excellent preservation with fine detail; low density
M	T	N	Mid-rib section; slight primary delamination?
N	N	N	Rt. manus; bite-marks

LISCOMB

BONEBED

ANALYSIS 2004

AK-385-V-053	Dors. Rib section Part. Cerv.	7.4 N	N	L
AK-385-V-054	Prozyga	3 N	N	L-M
AK-385-V-055	IND bone fragment	3.3 N	N	L
AK-385-V-056	Centrum fragment	3.5 N	N	L
AK-385-V-057	IND bone fragment	3.2 N	N	M-H
AK-385-V-058	Part. Cuad. Chevr.	3.7 N	N	N
AK-385-V-059	OT	5.1 N	N	N
AK-385-V-060	OT	2.8 N	N	N
AK-385-V-061	Partial centrum	4.5 N	N	N
AK-385-V-062	Part. Metatarsal III ?	5.4 N	N	L-M
AK-385-V-063	Left dorsal rib Part.Caud.	29.5 N	N	L
AK-385-V-064	Chevron	2.9 N	N	L
AK-385-V-065	IND bone fragment	1.9 N	N	M-H

S-M	T,L,C	N	Mid-rib section; highly fractured-- crushed
S	T	N	
S-M	T	N	Transported some ?
S	T,L	N	Part of ventral side of ant. Caudal or post. Dorsal Well rounded, mod. sphericity; modified neur.arch base?
M	T	N	
S	T,C	N	Proximal half of chevron
N-S	T	N	Narrow and incomplete
S	T	N	Narrow and incomplete
S-M	T,L,C	N	Ventral section of post. Dorsal or ant. Caudal centrum
M	T.L	N	Part of proximal end of metatarsal Prox. End of head & distal end shaft absent; head crushed
S	T,C	N	Base of distal pole or process
S	T	N	Well rounded, moderate sphericity; allochthonous ?
S	T	N	

LISCOMB

BONEBED

ANALYSIS 2004

AK-385-V-066	Hadrosaur tooth	1.2 N	N	N
AK-385-V-067	Left humerus	22.3 N	N	L
AK-385-V-068	Dorsal rib section	4.5 N	N	L
AK-385-V-069	Manal ph 2, d II	2.4 N	N	N
AK-385-V-070	Rt. ant. Dorsal rib	12 N	N	L
AK-385-V-071	Lft. Dorsal rib sect.	9.3 N	N	L
AK-385-V-072	Distal end of radius	7.7 N	N	L
AK-385-V-073	Dors. Neural spine	3.5 N	N	L
AK-385-V-074	Ant. Caudal centr.	4.3 N	N	L
AK-385-V-075	Part. Caud. NS	4 N	N	N-L
AK-385-V-076	Manal ph 1, d IV	3.1 N	N	N
AK-385-V-077	IND bone fragment	4.9 N	N	L

N	T	N	Crown with apical facet
M-P	T,L,C	N	Prox. 1/3 crushed; deltopectoral ridge displaced
S	T	N	Distal section of large dorsal rib
S	N	N	Excellent preservation and detail; low density
S	T	N	Near complete; could be post. Cervical rib; has long head
S	T	N	Base of head--mid rib section; anterior dorsal
M-P	T,L	N	Highly fractured
S-M	T	N	Distal 1/2 of anterior dorsal vert. neural spine
S	T,L	N	Lateral processes & neural arch bases unfused
S	T	N	Distal portion above zygapophyses
N	T	N	Excellent preservation and detail; low density
S	T	N	

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BONEBED

ANALYSIS 2004

AK-385-V-078	Cerv. Prezygapoph	5 N	N	L
AK-385-V-079	Metatarsal frag.	4.2 N	N	L
AK-385-V-080	Part.ant. Dors. Vert	11.8 N	N	L
AK-385-V-081	Left metacarpal IV	10.8 N	N	L
AK-385-V-082	Cerv. Neur. Arch fg	2.5 N	N	L
AK-385-V-083	Part. Caud. NS	2.6 N	N	L
AK-385-V-084	1/2 Cerv. Neur. Arch	4.3 N	N	L
AK-385-V-085	1/2 Cerv. Neur. Arch	5.2 N	N	L
AK-385-V-086	Caudal centrum	3.2 N	N	N
AK-385-V-087	Right metatarsal III	11.1 N	N	L
AK-385-V-088	Left prefrontal sect	3.3 N	N	L

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BONEBED

ANALYSIS 2004

S	T	N	Unusually large example
S	T,L	N	Proximal end
S-M	T,L	N	Neur. Arch with lat. Procs., base of NS, 1pre & po zyga
S	T	N	Excellent preservation and detail; low density
S	T	N	Questionable ID Above zygapophyses, below tip
S	T	N	Lft. arch,prezygapophy sis,& unfused base present
S	T	N	Rt. arch, prezygapophysis, & unfused base present
N	N	N	Excellent preservation and detail; low density; mid caudal
S-P	T,L,C	N	Platically distorted laterally; highly fractured
S	T	N	Anterior-ventral orbit margin section

LISCOMB

BONEBED

ANALYSIS 2004

AK-385-V-089	Cranial fragment ?	2 N	N	L
AK-385-V-090	IND bone fragment	4.3 N	N	L-M
AK-385-V-091	IND bone fragment	4 N	N	N
AK-385-V-092	Caudal chevron	7.8 N	N	L
AK-385-V-093	Post.caudal centrum	2.5 N	N	N
AK-385-V-094	Left tibia	41.5 N	N	L
AK-385-V-095	Left humerus	22.9 N	N	L
AK-385-V-096	Left dorsal rib	19.3 N	N	L
AK-385-V-097	Dorsal neur. Spine	4.7 N	N	L
AK-385-V-098	Lt.manal unguual div	2.6 N	N	N-L
AK-385-V-099	Dorsal rib section	17.3 N	N?	N-L

S	T,C	N	Indeterminant due to size and lack of diagnostic traits
M	T,L	N	Possible piece of ilium
M	T,L,C	N	Dentary fragment ?
S	T,L,C	N	Almost complete, tip of distal process & both prox. Tips
N	N	N	Excellent preservation & detail; low density
S-P	T,C,L	N	Proximal end absent, diaphysis highly fractured
S	T,C	N	Almost complete; proximal half highly fractured
S-P	T,L,C	N	Distal third missing or gone to punk; head highly fract.
S	T	N	Proximal quarter absent; well preserved
S	N	N	Well preserved, fine detail; low density
S-P	T,L,C	N	Mid rib section; core collapsed-- due to burial compres.?

AK-385-V-100	lf.manus,ph2, d II	3 N	N	L
AK-385-V-101	Caudal centrum	3.2 N	N	N
AK-385-V-102	Part.lt.metacarp. III	6.9 N	N	L
AK-385-V-103	Right dentary sect. 10+	N	N	L
AK-385-V-104	Dorsal rib section Rt. cerv.	7 N	N	N-L
AK-385-V-105	Prezygapo	3.4 N	N	L
AK-385-V-106	Theropod bone frag	4.9 N	N	L
AK-385-V-107	Dorsal rib fragment	3.7 N	N	L
AK-385-V-108	Hadrosaur tooth	2.5 N	N	L
AK-385-V-109	Quadrate	16 N	N	N
AK-385-V-110	Left radius	21.3 N	N	N-L
AK-385-V-111	Caudal neural arch	4 N	N	N

S-M	N	N	Fairly well preserved; larger than usual
N	T	N	Mid caudal; excellent preservation; neur. bases unfused
S	T,L	N	Proximal quarter absent; moderately fractured
S-P	T,L,C	N	Mid part of corpus; highly fractured; tooth rows present
S-P	T,S,L	N	Mid rib section
S	T	N	
N	T,L	N	Long bone of a theropod or bird--hollow
S-M	T,S	N	Medial dorsal rib of large individual Crown + most of root--minus tip; no apical facet
S	T	N	Complete; fragile;
N	N	N	MISSING Excellent preservation & detail; only two breaks
N-S	T	N	Mid-ant. Caudal; neural bases unfused; tip of NS gone
N	T	N	

AK-385-V-112	OT fragments		0.8 N	N	N
AK-385-V-113	Dorsal rib fragment		5.4 N	N	L
AK-385-V-114	Hadrosaur tooth		2.9 N	N	N
AK-385-V-115	Left? Calcaneum		5.2 N	N	L
AK-385-V-116	Femur fragment		8.3 N	N	N
AK-388-V-001	Chert pebble	1.7 x 0.8	N	N	H
AK-388-V-002	Troodon formosus		0.8 N	N	N
AK-388-V-003	IND bone fragment	2.5 x 1.5	N	N	H
AK-388-V-004	Dorsal rib frags.	1.5-3.3	N	N	M-H
AK-388-V-005	Caudal chevr. Frag.		1.9 N	N	M-H
AK-388-V-006	IND bone fragment		2.8 N	N	L-M
AK-388-V-007	IND bone fragments	0.9-1.1	N	N	N-L
AK-388-V-008	OT		6.8 N	N	L
AK-388-V-009	Part. Cerv. Prezyga		1.7 N	N	L

N	T	N	Narrow and incomplete
S-M	T,C	N	Distal part of rib--- see 028
N	T	N	Only tip of root absent; crown highly faceted
S	T,L	N	Small parts of posterior margin absent
M-P	T	N	Part of punky core
N	N	N	HIGHLY ROUNDED, LOW SPHERICITY
N	T	N	Premaxillary crown Highly rounded, low sphericity; reworked
H	N	N	allochthonous? Rib section broken up during excavation
M-P	T	N	
S-M	T	N	Proximal end of one proximal strut
M-P	T,L	N	Reworked? Possible skull fragments
S-M	T	N	Unusually long, narrow, incomplete; in matrix
S-M	T	N	Anterior end of prezygapophysis

AK-388-V-010	IND. Bone fragment	2.0 x3.1	N	N	H
AK-388-V-011	Caudal centrum		3.8 N	N	L-M
AK-388-V-012	Rib fragments	0.7-1.1	N	N	N-L
AK-388-V-013	Theropod tooth frag				
AK-388-V-014	Caudal centrum		3.9 N	N	H
AK-388-V-015	Skull fragment		2.9 N	N	L-M
AK-388-V-016	IND bone frag.		1.8 N	N	L-M
AK-388-V-017	OT		5 N	N	N
AK-388-V-018	Part. Dsl. Neur.arch		2.5 N	N	L
AK-388-V-019	Caud. Neur. Sp.frag		2.5 N	N	N
AK-388-V-020	Rib fragments	1.6-2.7	N	N	L
AK-388-V-021	Dors.neural arch fr		2.6 N	N	L
AK-388-V-022	Dors. Neural spine		4.7 N	N	L
AK-388-V-023	Caudal neural spine		4.4 N	N	L

H-P	T	N	Reworked, allochthonous? Well rounded, low sphericity Mid-anterior caudal; margins gone; neur. Bases unfused	
M-P	N	N	With matrix	
M-P	T	N	RNS Same characteristics as #011	
M-P	N	N		
S	T	N	Possibly the dorso- ant. Process of lft. laterosphenoid	22,24
S	T	N	Skull fragment ? Narrow, incomplete, unusually long; half in matrix	
S	T	N	In matrix; unfused base	
S-M	T	N		
N	T	N	Distal section	
S-M	T	N	Not very definitive Most of unfused base, little else;	
S-M	T,L	N	see22-24	
S	T,L	N	Distal half; anterior dorsal vertebra; see 21,23,24 Includes partial zygapophysis, distal tip absent	
S	T	N		

AK-388-V-024	Dors. Neur.arch fr.	2.5-3.6	N	N	L
AK-388-V-025	OT		2.3 N	N	L
AK-388-V-026	Dorsal neural spine		3.7 N	N	L
AK-388-V-027	Hadrosaur tooth		1.2 N	N	N
AK-388-V-028	Dorsal rib section		13.5 N	N	L
AK-388-V-029	Dorsal neural spine		4.7 N	N	N
AK-388-V-030	Post. Caud. centrum.		2 N	N	M-H
AK-388-V-031	Hadrosaur tooth		1.2 N	N	L
AK-388-V-032	Dorsal rib section		6.1 N	N	L
AK-388-V-033	Dors. Neural arch	1.5-3.5	N	N	L
AK-388-V-034	Part. Neural spine		4 N	N	L
AK-388-V-035	IND bone fragment		2.4 N	N	M-H
AK-388-V-036	IND bone fragment		2.4 N	N	N-L
AK-388-V-037	IND bone fragment		2.5 N	N	L

S-M	T	N	Both bases + side of NC; 4 highly rounded bone clasts
S	T	N	Narrow and incomplete
S-M	T	N	Most of distal half
N	T	N	Crown; unfaceted
S-M-P	T,C,L	N	Mid-distal section; crushed in part; chert pebble + matrix
S	T,L	N	Distal portion, collected in three fragments
M	N	N	Neural bases fused; allochthonous?
S	T	N	Most of crown; unfaceted
S	T,L	N	External margin of section at base of rib head
S-M-P	T,L,C	N	Highly fractured, poorly preserved
M-P	T	N	Poorly preserved; cortical bone absent, reworked ?
M	T	N	In matrix; exhibits dip of fragment in matrix
M	T,L	N	Possible dorsal rib fragment from margin near head
S	T,L	N	

AK-388-V-038	MATRIX				
AK-388-V-039	Cranial fragment		2 Y BINGO	?	N
AK-388-V-040	IND bone fragment		2.3 N	N	L
AK-388-V-041	Dentary fragment		2.3 N	N	L
AK-388-V-042	IND bone fragment		2.3 Y?	N	N
AK-388-V-043	IND bone fragment		4.4 N	N	M
AK-388-V-044	Rib fragments		2.3 N	N	L
AK-388-V-045	OT in matrix		5.6 N	N	N
AK-388-V-046	Caudal chevron		4.9 N	N	L
AK-388-V-047	Base of neur. Arch		2.2 N	N	L-M
AK-388-V-048	IND bone fragments	1.7-2.5	N	N	M
AK-388-V-049	IND bone fragment		4.8 N	N	M-H
AK-388-V-050	Caud. Chevron frag		1.5 N	N	L
AK-388-V-051	Caud. Chevron frag		2.7 N	N	L
AK-388-V-052	1/2 caud. Neur arch		3.7 N	N	L

MISIDENTIFIED

N	T,C?	N	Either a pterygoid or quadratojugal; three bite marks
S	T,L	N	
S	T	N	Base of tooth rows
S	T,L	N	One possible tooth mark
M-P	T,L	N	Trasported but not far, not reworked;
S-M	T,L	N	
S	T	N	Two pieces, one incomplete narrow OT
S	T,L	N	Tip of distal post absent; proximal struts inc.
S-M	T	N	Part of dorsal vertebra?
M-H	T	N	Possible reworked pieces of rib
M-P	T	N	Highly rounded, low sphericity; reworked allochthonous?
S	T	N	Tip of distal post absent; proximal struts inc.
S-M	T	N	Mid portion
S-M	T,L	N	Rt. half of medial caudal neural arch; base NS w/postZy

AK-388-V-053	IND bone fragment	5.8 N	N	L
AK-388-V-054	Part. Caudal chevr.	2.1 N	N	N
AK-388-V-055	Part. Rt. dorsal rib	15.5 N	N	L
AK-388-V-056	IND. Bone fragment	3.4 N	N	L-M
AK-388-V-057	IND. & neur.arch fgs 2.7 & 7.0	N	N	L
AK-388-V-058	OT	2 N	N	L
AK-388-V-059	IND bone fragment	2 N	N	M
AK-388-V-060	Hadrosaur tooth	1.8 N	N	N
AK-388-V-061	Neural arch base	2.5 N	N	L
AK-388-V-062	IND bone fragment	2 N	N	M-H
AK-388-V-063	Dors. Neur.arch	2.8 N	N	L-M
AK-388-V-064	Dorsal rib fragment	3 N	N	L
AK-388-V-065	Phalanx fragment	2.3 N	N	M-H

M	T,L	N	Piece of scapula? Bounded by fractures
S	T	N	Section of distal post
S	T,L	N	Base of head to distal 2/3rds; tubercle present
M-P	T,L	N	Possible rib fragment, if transported, not far
M-P	T,L,C	N	Base of neural arch; largest indeterminant
S	T	N	Wide, thick, and incomplete
M-P	T	N	No cortical bone left; highly altered; transported ?
S	T	N	Crown highly faceted; partial root present
S	T	N	Dorsal vertebrata arch, unfused base
M-P	T	N	Subrounded & subspherical; allochthonous?
M-P	T	N	Unfused base & 1/2 of NC
M	T	N	Mid-rib section Rounded,
M-H	T	N	subspherical; allochthonous ?

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ANALYSIS 2004

AK-388-V-066	IND bone fragment	8.3 N	N	L
AK-388-V-067	Dors. Vert lat.proc.	2.2 N	N	L
AK-388-V-068	IND bone fragment			
AK-388-V-069	Part. Cerv. NA	4.6 N	N	L
AK-388-V-070	Hadrosaur tooth	2.5 N	N	L
AK-388-V-071	Right fibula	39 N	N	L
AK-388-V-072	Right fibula	39 N	N	L
AK-388-V-073	Part. Lft. Dors. Rib	17 N	N	L
AK-388-V-074	Caudal centrum	3.3 N	N	N
AK-388-V-075	Caud. Neur. Spine	4.9 N	N	L
AK-388-V-076	Part. Neural spine	4.6 N	N	L
AK-388-V-077	Part. Caud. Centr.	3.5 N	N	M

M-P	T,L	N	Long bone fragment; deeply altered; diagenetic?
M-H	T	N	Distal tip of lateral process
			RNS
S	T	N	Rt. half of arch with prezygapophysis, unfused base
S	T	N	Unfaceted crown with partial root
S-M	T,L,C	N	Distal end well preserved, rest highly fractured
S-M	T,L,C	N	end; in jacket half with #s71,73
M-P	T,L,C	N	Crused in part; mid- distal section; in jacket half-71&72
N	N	N	Posterior caudal; neural bases unfused; excel. Preserv.
N-S	T	N	Distal tip absent; part of one postzygapophysis remains
S	T	N	Proximal end w/zygapophs absent
M	T,L	N	Anterior-caudal; dorsal surface; unfused bases;alloch??

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ANALYSIS 2004

AK-388-V-078	IND. Bone fragment		3.3 N	N	L
AK-388-V-079	Dors. Rib frags.	1.5-2.5	N	N	L
AK-388-V-080	Caud. Neural arch		4.5 N	N	L
AK-388-V-081	Caud. Chevron frag		1.8 N	N	N-L
AK-388-V-082	<i>Troodon formosus</i>		1.3 N	N	N
AK-388-V-083	<i>Caudal centrum</i>		2.5 N	N	L
AK-388-V-084	Dors. Rib fragment		3.3 N	N	L
AK-388-V-085	Rt. pedal ph 2,3dIV		3.2 N	N	L-M
AK-388-V-086	<i>Right squamosal</i>		5.5 N	N	L
AK-388-V-087	Part. Dors. Neur ar.	3.8 largest	N	N	L
AK-388-V-088	Dorsal rib section		4.4 N	N	L
AK-388-V-089	IND. Bone frag.		2.4 N	N	L
AK-388-V-090	OT		6.4 N	N	L

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ANALYSIS 2004

S	T,L	N	Possibly part of caudal chevron	
H-P	T,L,C	N	Highly fractured, poorly preserved	
S	T,L	N	Ant. Caudal; rt. base absent; Zygapophs present	
S	T	N	Right proximal articular base	
N	T	N	Mesial crown; lingual facet well developed	
N	T	N	Post. Caudal; neur. Bases fused; piece of vent. Absent	
S	T	N	Mid-rib; could be piece of neural spine	
S	N	N	Alteration of cortical bone atypical for this element	
S	T	N	Almost complete-- some of anterior process absent	
S	T,L	N	End of lateral process present	;091; in matrix
N	T,L	N	Section just below head and tubercle	
N	T	N	Part of neural spine?	
N	T	N	Unusually long, thick; incomplete	

AK-388-V-091	Part. Rt.cerv. NA	4.3 N	N	L
AK-388-V-092	Part. Caud. Chevron	2.3 N	N	L
AK-388-V-093	Caudal chevron	5.5 N	N	N
AK-388-V-094	Part of cervical NA	5.1 N	N	L
AK-388-V-095	Part. Caudal chevr.	5 N	N	L
AK-388-V-096	Post.Caudal centr.	4.8 N	N	L
AK-388-V-097	Post.Caudal centr.	3.7 N	N	L-M
AK-490-V-001	OT	1.9 N	N	L
AK-490-V-002	IND. Bone fragment	1.9 N	N	M
AK-490-V-003	IND. Bone frags. 1.5 largest	N	N	L
AK-490-V-004	<i>Troodon formosus</i>	1 N	N	N
AK-490-V-005	IND bone fragment	1.9 N	N	M-H

S	T	N	Latr. Zygapoph & process present; mapped, part.outside
S	T	N	Central portion, minus post and proximal processes
S	T	N	Mapped Prezygapoph & base; may be related to #091
S	T	N	
L	T,L	N	Anterior-caudal; base of pole and proximal processes
S	T,L	N	Atypically large post.caudal; neural bases unfused Post. Caudal; neural bases unfused
S-M	N	N	
N	T	N	Wide; incomplete Subrounded; transported & reworked?
S-M	T	N	Pieces of caudal chevron pole?
S-M	T,L	N	
N	T	N	Mesial crown with small apical facet Well-rounded, low sphericity; reworked,allochtho nous?
M	T	N	

AK-490-V-006	Dorsal rib section		4.9 N	N	M
AK-490-V-007	IND bone fragment		3.7 N	N	L-M
AK-490-V-008	Dors. Vertebra NS		4.2 N	N	L
AK-490-V-009	Dors. Vertebra NS		4.1 N	N	M
AK-490-V-010	IND bone fragment		2.5 N	N	M
AK-490-V-011	OT		1.4 N	N	N
AK-490-V-012	OT	1.4, 1.9	N	N	N
AK-490-V-013	Lft. dors. Rib section		12.5 N	N	L-M
AK-490-V-014	OT		1.5 N	N	N
AK-490-V-015	Part. Caud. NA		1.3 N	N	L
AK-490-V-016	IND. Bone frag.		1.4 N	N	L
AK-490-V-017	Hadrosaur tooth		0.7 N	N	M-H
AK-490-V-018	Dorsal rib section		5.6 N	N	L
AK-490-V-019	Ant. Caudal centr.		4.1 N Pathology	N	L
AK-490-V-020	Dorsal rib section		4.2 N	N	N-L

M-P	T,L,C	N	Mid-rib; crushed and poorly preserved; in matrix
M	T	N	Part of caudal chevron distal pole?
S-M	T,L,C	N	Most of distal part of neural spine; related to 009?
S-M	T	N	Most of distal part of neural spine; related to 008
S-M	T	N	allochthonous?
N	T	N	Very narrow, incomplete
N	T	N	Wide, incomplete
M-P	T,L,C	N	Part of head and part just below it; Highly crushed
N	T	N	Moderately wide; incomplete
S-M	T	N	Neural arch unfused base
S-M	T	N	On matrix
S-M	T	N	Highly worn crown fragment
M-P	T,L,C	N	Right rib? Near base of head; badly crushed
S-M	N	N	LESIONS; neural bases unfused
M-P	T,L,C	N	Section is below head; crushed, poor preservation

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ANALYSIS 2004

AK-490-V-021	IND bone fragment		2 N	N	N
AK-490-V-022	Hadrosaur tooth		1.3 N	N	L
AK-490-V-023	Rt. dors. Rib sect.		6.7 N	N	L
AK-490-V-024	OT		2.2 N	N	N
AK-490-V-025	OT		4.7 N	N	N
AK-490-V-026	Dors. Vertebra NS		7.4 N	N	L
AK-490-V-027	Lft. dors. Rib section		4 N	N	N-L
AK-490-V-028	Part. Vert.+rib frags.	5.6 largest	N	N	L
AK-490-V-029	Hadrosaur tooth		2.6 N	N	L
AK-490-V-030	Part. Dors.vert. NS		4.4 N	N	L
AK-490-V-031	IND bone frags.	0.8 & 1.0	N	N	N
AK-490-V-032	OT		2.3 N	N	N
AK-490-V-033	Hadrosaur tooth		1.2 N	N	N
AK-490-V-034	IND bone fragment		1 Y BINGO	N?	N

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P	T,C	N	Piece of rib?	
S	T	N	Highly worn crown-- -apical facet	
M	T,LS	N	Section just below + part of head; highly fractured	
N	T	N	Narrow and incomplete	crown with early apical facet
N	T	N	Narrow & unusually long, incomplete	
M-P	T,L,C	N	Ant. Dorsal; Highly fractured; NS & NA pieces & Zygap.	
N-S	T	N	Ant. Dorsal; just below head	
M-P	T,L,C	N	Neural arch and dorsal rib in matrix; highly fragmented	
S	T	N	Crown & most of root; crown with early facet	
S-M	T	N	Distal 1/3 of neural spine	
S	T,L	N	On matrix	
N	T	N	Narrow and incomplete	
S	T	N	Crown without facet in matrix	
S	T,C?	N	Possible cranial (pterygoid) fragment with bite marks	

AK-490-V-035	IND bone fragment		1.8 N	N	L-M
AK-490-V-036	OT		2.3 N	N	N
AK-490-V-037	IND bone frags.	2.7 largest	N	N	L
AK-490-V-038	Neural spine tip?		5.5 N	N	M-H
AK-490-V-039	Lft. Cervical NA		3.5 Y?	N	L
AK-490-V-040	Dorsal rib fragment		2.4 N	N	N-L
AK-490-V-041	IND bone fragment		1.3 N	N	L
AK-490-V-042	IND bone fragment		3.8 N	N	M-H
AK-490-V-043	IND bone section		4.8 N	N	L
AK-490-V-044	OT		4.4 N	N	L
AK-490-V-045	Caudal chevr. Frag.		1.6 N	N	L
AK-490-V-046	OT		1.9 N	N	L
AK-490-V-047	COPROLITE ?		2.6 N	N	M-H?

S	T	N	Possible zygapophysis from cervical vertebra
S	T	N	Narrow and incomplete
S	T,L,C	N	Most probably dorsal rib head base, crushed
M-P	T	N	If neural spine-- from adult dorsal vertebra; allochthonous?
S	T	N	Neural canal & unfused base; questionable bit mark
M-H	T,L,C	N	Mid-rib; partially crushed
S	T,L	N	Relatively well preserved
M	T,L	N	Subrounded; highly degraded bone, allochthonous?
S	T,L	N	Dorsal rib? In matrix
S	T	N	Wide, incomplete
S	T	N	Undiagnostic piece
S	T	N	Narrow and incomplete
M-H	?	N	Could be rounded ironstone clast

AK-490-V-048	Pedal ph 1 d III	5 x 6.0	N	N	M
AK-490-V-049	Caudal chevron		8.2 N	N	M-H
AK-490-V-050	Lft. Side, cerv. NA	4 .0 largest	N	N	L
AK-490-V-051	OT		3.2 N	N	L
AK-490-V-052	Hadrosaur tooth		0.8 N	N	M
AK-490-V-053	Post. Caudal centr.		0.8 N	N	N
AK-490-V-054	Neural arch frags.	1.6 largest	N	N	L
AK-490-V-055	Hadrosaur tooth		0.8 N	N	L
AK-490-V-056	Hadrosaur tooth		1.4 N	N	N
AK-490-V-057	IND bone frags.	0.7 & 1.0	N	N	N
AK-490-V-058	IND bone frags.	1.5 & 2.4	N	N	N
AK-490-V-059	Partial Neural spine		5.4 N	N	N-S
AK-490-V-060	Partial lf. Maxilla		15 N	N	N
AK-490-V-061	Rt.ant. Dors. Rib		10 N	N	L

M	T	N	Cortical bone gone from most margins
S-M	T,L	N	Only tips of distal post & proximal ends absent
S-M	T	N	Unfused base, prezygapophysis, postzygapoph.
S	T	N	Narrow and incomplete
S	T	N	Crown with highly faceted apex, root end abraded
S	T	N	Either a very young indiv. Or extreme distal; NB fused
S	T	N	Two unfused neural bases + misc. fragments
S	T	N	Highly worn crown Unfaceted crown with detinculate margins, well preser
N	T	N	Well preserved
S	T	N	Well preserved, little alteration
N-S	T,L	N	Only base is absent
M-P	T	N	Some teeth in place; crushed in places; poorly preserv.
M-P	T,C	N	
M-P	T,L,C	N	Head and mid-rib, incomplete; assoc. w/mass of frags.

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ANALYSIS 2004

AK-490-V-062	Post. Caudal centr.	3.3 N	N	L-M
AK-490-V-063	Part. Rt.exoccipital	6 N	N	L
AK-490-V-064	Part. Caud. NS	3.5 Y BINGO	N	L-M
AK-490-V-065	Part. Caud. NS	3.4 N	N	L-M
AK-490-V-066	IND FISH TOOTH	N	N	N
AK-490-V-067	OT	3.5 N	N	L
AK-490-V-068	OT	2.8 N	N	L
AK-490-V-069	Hadrosaur tooth	1.1 N	N	N
AK-490-V-070	IND bone fragment	1.5 N	N	N
AK-490-V-071	IND bone fragment	1.2 N	N	L
AK-490-V-072	IND bone fragment	1.5 N	N	M
AK-490-V-073	Part.manal ph1d II	1.7 N	N	N
AK-490-V-074	IND bone fragment	1.7 N	N	M
AK-490-V-075	Post. Caudal centr.	1.6 N	N	N
AK-490-V-076	IND bone fragment	2.1 N	N	L-M

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S-M	S	N	Neural bases unfused Dorsal arcuate process absent;dorsal end crushed
S-P	T,L,C	N	Medial section of spine; presence of bite-drag marks
S	T	N	Medial section of spine; presence of bite-drag marks
S	T,L	N	bite-drag marks
N	N	N	Tooth on matrix
S	T,L	N	Unusually thick; incomplete
S	T	N	Narrow and incomplete
S	T,L	N	Crown with moderately worn(faceted) apex
S	T	N	Cranial fragment?
S	T	N	
S-M	T	N	Possibly a carpal; allochthonous? Proximal end of phalanx, left manus
N	T	N	
M	T,L	N	
S	N	N	Neural bases unfused
S-M	T,L	N	Possibly a piece of a caudal chevron; transported?

AK-490-V-077	IND bone fragment		2 N	N	L
AK-490-V-078	Part.ant.dors vert.		2.5 N	N	L-M
AK-490-V-079	IND bone fragment		0.8 N	N	L
AK-490-V-080	Partial dorsal NS		4.4 N	N	L
AK-490-V-081	IND bone frags.	2.7 & 3.2	N	N	L
AK-490-V-082	Part. Dors.Vertebra		8.7 N	N	L
AK-490-V-083	Part. Dorsal rib		8.3 N	N	L
AK-490-V-084	OT		3.7 N	N	L
AK-490-V-085	Part. Dors.vert. NS		4.5 N	N	L
AK-490-V-086	Part. Caudal NA		7.3 N	N	L
AK-490-V-087	IND. Bone fragment		2.3 N	N	M-H
AK-490-V-088	IND. Bone fragment		1.7 N	N	M-H

S	T,L	N	Possibly a piece of a caudal neural spine	
S	T	N	Neural roof with base of NS, & postzygapophyses Piece of rib?	
S	T,L	N	Shows repose of frags., in matrix	
S	T	N	Distal 2/3rds of Neural spine	spine of ant. Dors.vert.
S	T,L	N	Rib fragments? Highly fractured Rt. 1/2, ant. vertebra;crushed in part; bases unfused	
S-M-P	T,L,C	N	Base of head & part of mid-rib; highly crushed	
M-P	T,L,C	N	Narrow and incomplete	
S	T	N	Distal 2/3rds of Neural spine of ant. Dors. Vertebra	
S	T	N	Right half + both post zygapophs + complete NS	
M-H	T,L	N	Allochthonous-- reworked?	
M-H	T	N	Most likely a piece of chevr.dist. pole; alloch.,reworked?	

AK-490-V-089	Part. Pst. Caud. Vert	1.7 N	N	N
AK-490-V-090	OT	4.4 N	N	L
AK-490-V-091	Rt. pes, ph1, d II	5.6 N	N	L
AK-490-V-092	Partial caudal NS	2.3 N	N	L
AK-490-V-093	IND bone fragment	2.7 N	N	L-M
AK-490-V-094	OT	5.4		
AK-490-V-095	Lt.manus, ph 2, D II	2.1 N	N	L
AK-490-V-096	IND bone masses			
AK-490-V-097	Part.dors. Vertebra 5.7 largest	N	N	L
AK-490-V-098	Part. Cerv. Vertebra	8 N	N	L-M
AK-490-V-099	IND bone fragments 3.4 & 4.4	N	N	M-H
AK-490-V-100	IND bone fragment	1.8 N	N	L
AK-490-V-101	Medial caudal centr	5 N	N	M-H

s	N	N	Neural bases fused; excellent preservation
S	T	N	Wide, thin, incomplete
S	T,L	N	Well preserved and little altered
S	T	N	Base of neural spine above zygapophs to mid-spine
S-M	T	N	RNS; unusually long, incomplete
N	N	N	Highly compressed prox-distally; very young juvenile? Clumps of punky crushed bone; some vertebral parts
M-P	T,L,C	N	Highly crushed; NA, neural unfused base +zygapophs
M	T,L,C	N	Left half of vertebra; prozygapoph & unfused bases
M-H	T,L	N	Allochthonous?
M	T,L	N	Possibly rib chip Lateral & neural bases
M	N	N	unfused;alloch?

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AK-490-V-102	IND bone fragment Part. Dorsal?	4.2 N	N	M
AK-490-V-103	Centr.	4.8 N	N	L
AK-490-V-104	Vertebral fragment	2 N	N	N
AK-490-V-105	Post. Caudal centr.	2.5 Y BINGO	N	L
AK-490-V-106	Prox. End of fibula?	10.3 N	N	M
AK-490-V-107	OT	4.5 N	N	L
AK-490-V-108	MATRIX			
AK-490-V-109	OT	3.3 N	N	L
AK-490-V-110	Dors. Rib fragment?	2 N	N	L
AK-490-V-111	Part. Caudal chevr.	5.3 N	N	L
AK-490-V-112	IND bone fragment	2.4 N	N	N
AK-490-V-113	IND bone fragment	2.5 N	N	L
AK-490-V-114	IND bone fragment	2.1 N	N	L
AK-490-V-115	IND bone fragment	1.5 N	N	L
AK-490-V-116	Dorsal rib fragment	1.9 N	N	L
AK-490-V-117	Lft? Radius section	5.8 N	Y?	N-L

M-P	T,L	N	Possible piece of dorsal rib	
M-P	T,L,C	N	Poorly preserved, crushed centrum	
M	T,L	N	Roof of neural canal---base of neural spine	
S	N	N	Two arcuate lesions (osteochondrosis)	
M-H-P	T,L,C	N	Proximal 1/3; punky and crushed	
S	T	N	Narrow and incomplete	
S	T	N	Wide & flat, incomplete	
N	T,L	N	Part of rib head?	
S	T,L	N	Most of distal post + part of one prox. Process	
M-H	T,L	N		
M-H	T,L,C	N	Possible dorsal rib chip in matrix	
S-M	T,L	N		
S-M	T,L	N	Cranial chip?	
M-H	T,L,C	N	Crushed and poorly preserved; on matrix	of head ?
S-M	T,L,C	N	Distal section; possibly shows trample fractures	

AK-490-V-118	IND bone fragment				
AK-490-V-119	Lt.manus, ph 2,D V		2.2 N	N	L-M
AK-490-V-120	IND bone fragment		2 N	N	L
AK-490-V-121	Dors. Rib fragment?		2.7 N	N	L
AK-490-V-122	IND bone fragment		1 N	N	L
AK-490-V-123	Dorsal rib fragment		2.4 N	N	L
AK-490-V-124	Neural arch-spine				
AK-490-V-125	IND bone section		6.5 N	N	L
AK-490-V-126	Part. Caudal NS		3.4 N	N	L
AK-490-V-127	OT		5 N	N	L
AK-490-V-128	IND bone fragment				
AK-490-V-129	Lft. Metatarsal IV		12.2 N	N	L
AK-490-V-130	Dorsal rib section		7.2 N	N	L
AK-490-V-131	Left metatarsal II		12.1 N	N	L
AK-490-V-132	Left metatarsal II		14.8 N	N	L
AK-490-V-133	Dors. NS fragments	3.0 largest	N	N	M

S	T	N	RNS Distal end broken off
S	T,L	N	Possible pterygoid fragment
S-M	T,L	N	Near base of head
M	T,L	N	
M-P	T,L,C	N	Piece of mid-rib; crushed Mass of broken bone RNS
S	T,L	N	Possibly a part of a large neural spine
S	T	N	Distal 1/2 of spine
S	T	N	Narrow and long, incomplete
S-M	T,L	N	RNS Almost complete Mid-proximal section; unusual mineralization
S	T	N	Proximal interior margin punky, collapsed
S-M-P	T,LC	N	Proximal quarter punky, highly fractured
S-M-P	T,L,C	N	
M-P	T,L	N	One zygapophysis present

AK-490-V-134	Dorsal rib section		5.3 N	N	L
AK-490-V-135	OT	1.9 & 2.0	N	N	L
AK-490-V-136	Pedal ph 2 d III		7.7 N	N	L
AK-490-V-137	IND bone fragment		1.9 N	N	L
AK-490-V-138	Manal ph 2 d II		1.8 N	N	N
AK-490-V-139	IND bone fragment		2.6	N	L
AK-490-V-140	Dorsal rib section		3 N	N	L
AK-490-V-141	Ant. Caudal NS		5.8 N	N	L
AK-490-V-142	Cranial fragment ?		4.7 Y BINGO	N	L
AK-490-V-143	Vertebral frags.	1.4 & 2.1	N	N	L-M
AK-490-V-144	Part. Lt. postorbital		6.9 N	N	L
AK-490-V-145	Hadrosaur tooth		1 N	N	N
AK-490-V-146	OT		2 N	N	N
AK-490-V-147	Part. Dorsal NS ?		4.5 N	N	L

M-P	T,L,C	N	Mid-rib section; highly crushed & fractured
S	T	N	Three pieces that don't match in size, all inc.
S	T	N	Adult example ? Complete, well preserved
S	T	N	Caudal neural spine ? On matrix
S	N	N	Excellent preservation & detail
S	T,L	N	Caudal neural spine ? On matrix
M-H	T,L,C	N	Mid-rib section; highly crushed & fractured
M	T	N	Distal half of neural spine
S-M	T,L,C	N	Two bite and drag marks
M	T,L	N	Partial unfused base & partial zygapoph.
S	T,L,C	N	Corpus of element minus processes & post.
S	T	N	Most of crown; unfaceted
S	T	N	Narrow, incomplete
M-H-P	T,L	N	Very punky interior; poor preservation

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AK-490-V-148	Rt. dors. Rib sect.	3.9 N	N	N
AK-490-V-149	Ant.dors. Vert frag	2.5 N	N	L
AK-490-V-150	Caudal NA & NS	9.3 N	N	L
AK-490-V-151	Ant. Dorsal NA&NS	7.8 N	N	L
AK-490-V-152	Post. Caudal centr.	1.8 N	N	N
AK-490-V-153	Post. Caudal centr.	2.7 N	N	N
AK-490-V-154	COPROLITE ?	2.8 N	N	L-M
AK-490-V-155	IND bone fragment	1.5 N	N	L
AK-490-V-156	Hadrosaur tooth	2 N	N	L
AK-490-V-157	Hadrosaur tooth	1.1 N	N	N
AK-490-V-158	Dors.NS fragment	2.1 N	N	L
AK-490-V-159	OT	1.9 N	N	L
AK-490-V-160	OT	4.1 N	N	L
AK-490-V-161	OT	5 N	N	L

S	T	N	Partial rib head with tuberc., prox. End gone
S	T,L	N	Postzygapophysis & part of base
M-P	T,L,C	N	Almost complete; crushed & distorted
M-P	T,L,C	N	Almost complete; crushed & distorted
N	N	N	Neural bases fused; excellent preservation
N	N	N	Neural bases fused; excellent preservation
N?	N	N	May be ironstone clast
S	T,L	N	Rib chip? Small apical facet on crown; root incomplete
S	T	N	Partial crown, no apical facet
N	T	N	Small piece of neural spine distal margin
S	T,L	N	
S	T	N	Narrow, incomplete
S	T	N	Narrow, incomplete
S	T	N	Narrow & unusually long, incomplete

AK-490-V-162	Hadrosaur tooth		1.4 N	N	L
AK-490-V-163	Dors. Rib fragment?		2.4 N	N	N-L
AK-490-V-164	Dors. Rib fragment?		5.4 N	N	L
AK-490-V-165	IND bone fragment		2.4 N	N	L
AK-490-V-166	OT		4.8 N	N	L
AK-490-V-167	Part. Caudal NS	1.3--3.1	N	N	L
AK-490-V-168	Rt. dorsal rib sect.		6.8 N	N	L
AK-490-V-169	OT		1.5 N	N	L
AK-490-V-170	Dromaeosaurus		5 N	N	N-L
AK-490-V-171	Caudal chevron frag		1.9 N	N	N-L
AK-490-V-172	IND bone fragment		2 N	N	L
AK-490-V-173	Dors. Rib fragments	2.7 & 3.8	N	N	L
AK-490-V-174	Caud. chevron sect.		5.4 N	N	L

S	T	N	Unfaceted crown & small part of root
S-M	T,L	N	
M-P	T,L,C	N	Poorly preserved, crushed mid-rib
M-P	T	N	Distal tip of dorsal neural spine ?
S	T,L	N	Wide, strongly ribbed, incomplete
S	T,L	N	Most of neural spine; four pieces
N-S	T,L,C	N	Base of rib head, part of tubercle, & prox.pr
N	T	N	Very narrow, incomplete
N-S	T,L	N	Crown & small piece of root; slight apical facet
N-S	T	N	Left proximal articular head & partial shaft
S	T	N	Possible piece of ant. Dorsal rib of very young
S-M	T,L	N	Proximal section up to base of head
S	T	N	Distal post + base of one proximal process

AK-490-V-175	Part.caud. NA & NS	2.5 & 3.0	N	N	L
AK-490-V-176	Dors? NA fragment		2.5 N	N	L
AK-490-V-177	IND bone fragment		3.1 N	N	L
AK-490-V-178	OT		2.6 N	N	N
AK-490-V-179	Part. Caudal NA		4.5 N	N	L
AK-490-V-180	Hadrosaur tooth		2.1 N	N	N
AK-490-V-181	Pedal ungual		4.1 N	N	N-L
AK-490-V-182	Pst. Caud. Vert.		1.4 N	N	N
AK-490-V-183	Hadrosaur tooth		1.3 N	N	N
AK-490-V-184	IND bone fragment		5.5 Y?	N	L-M
AK-490-V-185	Caudal NS base		1.4 N	N	L
AK-490-V-186	OT		4.2 N	N	N-L

S	T,L	N	Unfused neural base + canal; NS base w/zygapophs
S	T,L	N	Unfused neural base & neural canal from one side
S-M	T,L	N	
S	T	N	Narrow, incomplete
M-P	T,L,C	N	Unfused neural base +canal, one side
S	T	N	Unfaceted crown + most of root; pathol.crown.
S	T,L,C	N	Margin Distal portion crushed, but fairly complete; on matrix
N	T	N	Neural bases fused, parts of NA; preser. Excellent
N	T	N	Unfaceted crown with bent apex
S-M	T,L	N	Section of dorsal NS ?Possible bite mark & gnawing
S	T	N	Part of one zygapophysis present
S	T	N	Medium width, incomplete

AK-490-V-187	Rt.? Dors. Rib sect.		2.7 Y	N	L
AK-490-V-188	Hadrosaur tooth		1.5 N	N	L
AK-490-V-189	Lft manus ph 1d III		2.5 N	N	L-M
AK-490-V-190	Dorsal NS distal tip		2.3 N	N	L
AK-490-V-191	Pst. Caudal vert.		2.4 N	N	L
AK-490-V-192	Lft. Pes, ph 1, d II		4.4 Y BINGO	N	L
AK-490-V-193	IND bone				
AK-490-V-193	fragments	1.5 & 1.8	N	N	L
AK-490-V-194	Distal end of rib		1.4 N	N	L
AK-490-V-195	Cervical NA frags.	2.4 & 3.4	N	N	L
AK-490-V-196	Part. Rt. dorsal rib		13.7 N	N	L
AK-490-V-197	IND bone section		4.5 N	N	N
AK-490-V-198	Manal unguis, d III ?		3.1 N	N	L-M
AK-490-V-199	Part. Caudal chevr.		3 N	N	L
AK-490-V-200	Post. Caudal centr.		5.7 Y?	N	N

N-S	T,L	N	Bite marks running perpendicular to each other	
S	T	N	Unfaceted crown, crown has transv. Marks; part. Root	
S	N	N	External proximal margin missing	
S-M	T	N		
N	N	N	NC--fused neural bases & partial neural arch	
S-M	T,L	N	Bite marks with related fracture patterns	
S	T,L	N	Cortical bone chips	ded, transported ?
S-M	T,L	N	On matrix	
S	T	N	Unfused neural base + neural canal	
S	T,S	N	Anterior dorsal, base of head to distal 2/3rds	
M-P	T	N	Possible skull fragment in matrix; poorly preserved	
S	T,L	N	Poor preservation, abraded	
S	T,L	N	Rt. proximal articular process + part of base	
S	T,L	N	Unfused neural bases; ADULT?	

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AK-490-V-201	Part. Lft. Dors. Rib	19.6 N	N	L
AK-490-V-202	OT	3.3 N	N	L
AK-490-V-203	Rt. half cervical NA	5.2 N	N	L
AK-490-V-204	Part of #203			
AK-490-V-205	Lft. Pes, ph 2-3d IV	2.9 N	N	L-M
AK-490-V-206	Distal 1/3 dors. NS	3.6 N	N	L
AK-490-V-207	Partial basioccipital	4 N	N	M-H?
AK-490-V-208	Right femur	36.3 N		L
AK-490-V-209	Part.post.caud.vert .	2.8 N	N	L
AK-490-V-210	IND bone fragment	3 N	N	?
AK-490-V-211	Post. Caudal centr.	3.7 N	N	N-L
AK-490-V-212	Part. Supraoccipital 1.9-3.3	N	N	N-L
AK-490-V-213	Part. Caudal centr.	2.6 N	N	M-H?

M-P	T,L,C	N	Rib head minus tubercle, crushed & punky.
S	T	N	Narrow, incomplete Unfused neural base and right side of NC
S-M	T,L	N	Glued together under #203 Abraded & poorly preserved, transported?
M	N	N	
S	T,S	N	
H-P	T,L,C	N	Poorly preser.; post. End crushed inward; allochthonous? Strongly crushed laterally, head prominent; part. Jacket
S-M-P	T,L,C	N	Fused neural bases & partial neural arches Punky and non discript
N	N	N	
H-P	T,L	N	
N-S	N	N	Neural bases unfused; excellent preservation Missing anterior processes
S	T,L	N	Dorsal half gone; neural bases unfused;
M-P	T	N	allochthonous?

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AK-490-V-214	Rt. pes, ph1, d II	5.7		
AK-490-V-215	Pes, ph 1 d III	7 N	Y?	L
AK-490-V-216	Dorsal rib section	3.5 N	N	L
AK-490-V-217	Partial caudal NS	9 N	N	L-M
AK-490-V-218	Post. Caudal cent.	3.3 N	N	N-L
AK-490-V-219	Dorsal rib section	6.7 N	N	L
AK-490-V-220	Part. metacarpal V	3 N	N	M
AK-490-V-221	Hadrosaur tooth	1.4 N	N	L
AK-490-V-222	OT	1.7 N	N	L
AK-490-V-223	Part. Dorsal NS ?	5.4 N	N	N
AK-490-V-224	Part lt. manal ph1d II	2.3 N	N	L
AK-490-V-01fl	OT	2.3 N	N	L
AK-490-V-02fl	OT	1.2 N	N	L
AK-490-V-03fl	OT	1.2 N	N	L
AK-490-V-04fl	OT	2.9 N	N	L
AK-490-V-05fl	OT	1.6 N	N	L

S-M	T,L	N	Possible multiple
S	T	N	bite marks Distal piece
M-P	T,LC	N	One zygapophysis & distal tip absent; crushed laterally Unfused neural bases; excellent preservation
N-S	N	N	
M-P	T,L,C	N	Distal section, punky and crushed Proximal 2/3, modified; transported ?
M	T	N	
S	T	N	Unfaceted crown & small part of root
S	T	N	Wide, incomplete
S	T,L	N	
S	T	N	Proximal 1/3; relatively small
S	T	N	Narrow, incomplete
S	T	N	Narrow, incomplete
S	T	N	Narrow, incomplete
S	T	N	Narrow, incomplete
S	T	N	Narrow, incomplete

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AK-490-V-06fl	IND bone fragment	1.8 N	N	M-H
AK-490-V-07ft	IND bone fragment	2 N	N	L
AK-490-V-08fl	<i>Troodon formosus</i>	1.2 N	N	N
AK-490-V-09ft	Rt? dorsal rib sect.	5.7 Y?	N	L
AK-490-V-10ft	Lt. ant. Dors.rib sec	10.2 N	N	L
AK-490-V-11ft	IND bone fragment	3.3 N	N	M-H
AK-490-V-12ft	OT	2.1 N	N	L
AK-490-V-13ft	<i>Theropod phalanx</i>	2.1 N	N	N
AK-490-V-14ft	Hadrosaur tooth	1.2 N	N	L
AK-490-V-15ft	Rt. side, dors NA	2.6 N	N	L
AK-490-V-16ft	IND bone fragment	1.7 N	N	M-H
AK-490-V-17ft	Caudal chevr.frag.	1.5 N	N	L
AK-490-V-18ft	OT Part. Cerv.	1.6 N	N	L
AK-490-V-19fl	Prozyga	3 N	N	L

M	T	N	Well rounded, low sphericity; allochthonous ?
S	T,L	N	Possible distal end of caudal chevron
N	T	N	Mesial tooth; lingual facet
S	T,L,C	N	Proximal section just below head; bite marks?
M-P	T,LC	N	Distal-mid rib; highly fractured, fragile
M-H	T,L	N	Subrounded, platy; reworked- allochthonous?
S	T	N	Narrow, incomplete Manal phalanx 1;
N	N	N	excellent preservation
S	T	N	Crown w/highly faceted apex
S	T	N	Anterior dorsal vert, unfused neural base
S	T,L	N	Subrounded, subspherical; reworked?
S	T	N	Proximal articular head
S	T	N	Narrow, incomplete
S	T,L	N	

AK-490-V-20fl	Part.post.caud.vert.		2.5 N	N	N
AK-490-V-21fl	Part. Rt. jugal & NS	3.3 & 5.2	Y BINGO	N	L
AK-490-V-22fl	IND bone fragment		1.2 N	N	M-H
AK-490-V-23fl	Ant. Dors. Rib sect.		8.6 N	N	L
AK-490-V-24fl	Ant. Caud. NA &NS		16 Y BINGO	N	L
AK-490-V-25fl	Maxillary ? Frags.	1.5 &2.9	N	N	L
AK-490-V-26fl	Part. Caudal NS		2.3 N	N	N
AK-490-V-27fl	Part. caudal chevr		3 N	N	N
AK-490-V-28fl	Vertebral frags.				
AK-490-V-29fl	Half of dorsal NA		3.5 N	N	L
AK-490-V-30fl	IND bone fragments		0.9 N	N	N
AK-490-V-31fl	Rt. laterosphenoid		4.3 N	N	N
AK-490-V-32fl	IND bone frags.	1.3 &1.4	N	N	M

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S	N	N	Neural bases fused; excellent preservation	
S	T,L	N	3 bite marks; tip of neural spine; a zygapophysis	
S	T	N	Subrounded; low sphericity; reworked ?	
M-P	T,L	N	Right ? Anterior dorsal rib, proximal, subhead	
S-M	T,L	N	Almost compl. na & ns; bite marks on na; unfused bases	
M-H	T	N		
S	T	N	Base of postzygapophs & distal 2/3	
S	T	N	Right proximal articular head & shaft	chips
M-H	T	N	RNS; part of bone jam	
S	T	N	Poorly preserved	
S	T,L,C	N	Ant. & post. tips absent; lies upside down on matrix	tion; well preserved /medial ridge
M-H	T,L	N	Undiagnostic chips	absent

AK-490-V-33fl	Rt. dors. Rib frags.	3.9 & 4.4	N	N	L
AK-490-V-34fl	Lt. metacarpal IV		10 N	N	L
AK-490-V-35fl	Hadrosaur tooth		0.6 N	N	L
AK-490-V-36fl	Dorsal rib section		10.1 N	N	N
AK-490-V-37fl	Calcaneum ?		7.3 N	N?	L
AK-490-V-38fl	Ant. Dorsal NA		10 N	N	L
AK-490-V-39fl	Partial neural arch	1.2 & 2.5	N	N	L
AK-490-V-40fl	Part. Dorsal rib	1.0 - 4.5	N	N	L
AK-490-V-41fl	Part. Basioccipital		4 N	N	L-M
AK-490-V-42fl	Partial right scapula		16.3 N	N	L-M
AK-490-V-43fl	Dorsal rib frags.	0.5--3.6	N	N	L
AK-490-V-44fl	Post. Caudal centr.		3.6 Y?	N	L
AK-490-V-45fl	Post. Caudal centr.		2.5 Y?	N	L

S-M	T,L	N	Piece of rib read base w/part. Tubercle; & mid-rib Series of transverse breaks, well preserved detail	
S-M	T,S	N	Piece of the root	
S	T	N	Mid-rib section; well preserved	; in bone jam
N-S	T,S	N		
S-M	T,L,C	N	Dorsal keel absent NS & rt. diapophysis missing; crushed & fractured	
M-P	T,L,C	N		
S	T,L	N	Unfused neural base + side of NC + small zygapophl. Distal section of dorsal rib; in bone jam	
S-M	T,L	N	Dorsal side up on matrix	
M-H	T,L	N	Mid-posterior section of blade; highly fract.; bone jam	
M-H	T,L	N	Mid-rib section; highly fractured	
M	T,L	N	Unfused neural bases	
S-M	N	N	Fused neural bases; possible gnaw marks	
S	N	N		

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AK-490-V-46fl	OT		2.2 N	N	N-L
AK-490-V-47fl	OT		1.9 N	N	N-L
AK-490-V-48fl	Hadrosaur tooth		0.9 N	N	L
AK-490-V-49fl	Hadrosaur tooth		1.5 N	N	L
AK-490-V-50fl	IND bone fragment		1.2 N	N	L
AK-490-V-51fl	OT	1.7 & 2.8	N	N	L
AK-490-V-52fl	IND bone fragment		1.9 N	N	L
AK-490-V-53fl	OT		1.7 N	N	L
AK-490-V-54fl	IND bone fragment		0.3 N	N	?
AK-490-V-55fl	IND bone fragment		1.5 N	N	L-M
AK-490-V-56fl	IND bone frags.	1.0--1.9	N	N	L
AK-490-V-57fl	IND bone frags.	0.5 & 0.6	N	N	L
AK-490-V-58fl	IND bone fragment		2.1 N	N	L
AK-490-V-59fl	Hadrosaur tooth		2.3 N	N	N
AK-490-V-60fl	OT		3.6 N	N	L

N-S	T	N	Narrow, incomplete
N-S	T	N	Narrow, incomplete Faceted crown + partial root; unusually small tooth
S	T	N	Unfaceted crown
S	T	N	Piece of caudal chevron?
S	T	N	Wide & thin, incomplete Bone chip, possible piece of pterygoid or quadrjugal
S	T,L	N	; nondiagnostic
S-M	T	N	Narrow, incomplete Bone chip; in matrix
?	T	N	Rounded, moderately spherical; reworked?
M-H	T,L	N	
M	T,L	N	Possible rib pieces Bone chips, nondiagnostic
S	T,L	N	
S-M	T,L	N	
S	T	N	Unfaceted crown + partial root, on matrix
S	T	N	3 pieces; narrow and incomplete

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AK-490-V 61fl	Dorsal rib section		7.5 N	N	L
AK-490-V-62fl	IND bone fragment		1.2 N	N	N
AK-490-V-63fl	OT		6.2 N	N	L
AK-490-V-64fl	IND bone fragment		1.5 N	N	L
AK-490-V-65fl	Part. Lt. dors. Rib		12.2 N	N	N-L
AK-490-V-66fl	Rt? dorsal rib sect.		14 N	N	L
AK-490-V-67fl	Ind. Skull fragment		1.9 N	N	N
AK-490-V-68fl	IND bone section		11.3 N	N	L-M
AK-490-V-69fl	Part. Lt. dentary		14.5 N	N	L
AK-490-V-70fl	Left metatarsal III		16.2 N	N	L
AK-490-V-71fl	Dorsal rib frags.	1.6--4.4	N	N	L-M
AK-490-V-72fl	Rib				

M-H-P	T,L	N	Mid-rib section; highly fragmented	bone jam
M	T	N	Possible piece of cranial bone	bone jam
S	T	N	4 pieces, narrow & incomplete	; punky & crushed bone jam
M-P	T	N	Subrounded, low sphericity; reworked?	
M-H	T,L,C	N	Base of head(tubercle) to mid-rib; crushed; bone jam	
M-P	T,LC	N	Base of head to mid-rib, crushed & fractured	
N	T,L	N		
M-H-P	T,L,C	N	Tibia or femur section; in bone jam; allochthonous?	
M-H-P	T,L,C	N	Most of corpus with complete tooth grooves	
M-H-P	T,L,C	N	Shaft highly fractured; proximal 1/3 punky	
M-H-P	T,L,C	N	7 pieces of mid-rib to base of head; highly fractured RNS; part of bone jam	

AK-490-V-73fl	Lt. dorsal rib frags. 3.7 largest	N	N	L
AK-490-V-74fl	Dorsal rib section	9.1 Y BINGO	N	L
AK-490-V-75fl	Distal sect. of tibia	21		
AK-490-V-76fl	Post.caudal NS	3.2 N	N	L
AK-490-V-77fl	Partial left? Pubis 29-30	N	N	L
AK-490-V-78fl	Dorsal rib section	4.4 N	N	?
AK-490-V-79fl	Rt. manal ph1d III	2.2 N	N	N-L
AK-490-V-80fl	IND bone fragment	2.2 N	N	L-M
AK-490-V-81fl	OT	1.4 N	N	L
AK-490-V-82fl	Centrum fragment	2.2 N	N	M-H
AK-490-V-83fl	OT	2.3 N	N	L
AK-490-V-84fl	Partial tibia	13.3 N	N	L
AK-490-V-85fl	Hadrosaur tooth	0.7 N	N	L
AK-490-V-86fl	Hadrosaur tooth	0.7 N	N	L

M-H-P	T,L,C	N	Highly crushed and fractured; part of bone jam Adult? Crushed with longitudinal bite marks; bone jam ; on matrix
M-H-P	T,L,C	N	Complete neural spine; part of one postzygapoph. RNS; part of bone jam
S	T	N	Complete neural spine; part of one postzygapoph.
M-H-P	T,L,C	N	Punky and highly crushed; ischiadic peduncle absent
M-H-P	T,L,C	N	Highly crushed mid-rib Excellent preservation and detail
N	N	N	Subrounded; low sphericity; reworked ?
H-P	T	N	Subrounded; low sphericity; reworked ?
S-M	T,L	N	Narrow, incomplete Small piece of dorsal surface; subrounded- allochthonous?
S-M	T,L	N	3 pieces; narrow and incomplete
S	T	N	Part of distal end plus diaphysis
M-H-P	T,L,C	N	Crown w/highly faceted apex
S	T	N	Crown w/highly faceted apex
S	T	N	Crown w/highly faceted apex

AK-490-V-87fl	Rt. pes,ph1,d IV	4.4 N	N	N-L
AK-490-V-88fl	OT	1.3 N	N	N
AK-490-V-89fl	Mix of rib & Ind frags 3 largest	N	N	L
AK-491-V-001	Hadrosaur tooth			
AK-491-V-002	IND bone fragment	3		
AK-491-V-003	IND bone fragment	1.8 N	N	L
AK-491-V-004	Partial neural arch			
AK-491-V-005	Part. Rt. exoccipital	3.9 N	N	L-M
AK-491-V-006	Tyrannosaur tooth	2.3 N	N	N
AK-491-V-007	Rib fragment	2.4 N	N	L-M
AK-491-V-008	IND bone fragment	2.4 N	N	L-M
AK-491-V-009	IND bone fragment	1.9 N	N	L-M
AK-491-V-010	IND bone fragment	2.7 N	N	L-M
AK-491-V-011	IND bone fragment	1.7 N	N	L-M
AK-491-V-012	IND bone fragment	2 N	N	L-M
AK-491-V-013	Dorsal rib fragment	2.3 N	N	L-M

N-S	T	N	Excellent preservation and detail
N	T	N	Narrow, incomplete Found in jacket
M-P	T,L	N	with prep of #77fl
RNS			
RNS			
S	T,L	N	Thin bone chip
RNS			
M-P	T,L,C	N	Only ventral base present
S	T,L	N	One half of premaxillary tooth, split longitudinally
S-M	T	N	Near base of head
S-M	T,L,S	N	Subrounded-subangular; Allochthonous??
H-P	T,S	N	Allochthonous??
M-H	T	N	Caudal chevron post?
M-H	T,L	N	Caudal neural spine fragment?
S-M	T,L,S	N	Allochthonous??
M-H-P	T,L	N	Allochthonous??

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AK-491-V-014	Partial neural arch	1.8 N	N	M
AK-491-V-015	Partial neural arch	1.7 N	N	L-M
AK-491-V-016	Cranial fragment	3 N	N	L
AK-491-V-017	Part. Rt. astragalus	4.2 N	N	L-M
AK-491-V-018	Root casts ?	0.7 N	N	N
AK-491-V-019	Part. Dors. Vert NS	5 N	N	N-L
AK-491-V-020	Dorsal rib section	6.7 N	N	N
AK-491-V-021	OT	1.4 N	N	L
AK-491-V-022	Part. Caudal NS	2.6 N	N	L
AK-491-V-023	OT	5.9 N	N	L
AK-491-V-024	IND bone fragment	2.5 N	N	M
AK-491-V-025	Post. Caudal centr.	3 N	N	N
AK-491-V-026	Part. Caudal NS	9 N	N	L
AK-491-V-027	Part. Left quadrate	6.6 N	N	L-M
AK-491-V-028	Part. Lt. Laterosph.	3.8 N	N	L-M

M	T	N	Unfused neural base + NC; allochthonous??
S-M	T	N	Unfused neural base + NC
S	T,L	N	Partial laterosphenoid? Lateral 1/3; heavily worn;
M-H	T	N	allochthonous??
N	N	N	Not bone
S	T,S	N	Distal 1/3 of neural spine
S	T,L,S	N	Mid-rib section; fairly well preserved
S	T	N	Narrow, incomplete; on matrix
S	T	N	Posterior caudal; distal 2/3rds
S	T	N	Narrow, long, & incomplete
M-H	T,L	N	Allochthonous??
N-S	N	N	Neural bases unfused; excellent preserv.
N-S	T,L	N	Medial-post. Caudal neural spine & NA; unfused bases
M-P	T,L	N	Dorsal 1/3 + part of pterygoid
M-H	T,L,C	N	Posterior 1/3; crushed, highly fractured; allochthonous?

AK-491-V-029	Part. Caud.NS & NA	3.5 N	N	L-M
AK-491-V-030	OT	1.5 N	N	L
AK-491-V-031	IND bone fragment	1.8 N	N	M
AK-491-V-032	Dorsal rib section	10.5 N	N	L
AK-491-V-033	OT	2.8 N	N	N
AK-491-V-034	Rib section ?	3.5 N	N	N
AK-491-V-035	Post. Caudal centr.	2.7 N	N	L
AK-491-V-036	Part. Metacarpal III	6.3 N	N	L
AK-491-V-037	Rib fragment ?	1.2 N	N	L
AK-491-V-038	Rib section	7.6 N	N	N
AK-491-V-039	OT	3.3 N	N	L
AK-491-V-040	Part. Pedalph2,3dIV	2.7 N	N	M-H
AK-491-V-041	Part. Rt. postorbital	6.8 N	N	L
AK-491-V-042	OT	1.7 N	N	N
AK-491-V-043	Hadrosaur tooth	2.4 N	N	N
AK-491-V-044	OT	1.4 N	N	N

M	T,L	N	Dist.2/3 of NS and one side of NA absent; NB
N	T	N	unfused
M	T,L	N	RNS Thin bone chip; allochthonous??
M	T,L,C	N	Mid-rib to base of head; proximal end highly fractured
N	T	N	Narrow, incomplete Could be an unusually thick ossified tendon
S	T	N	Neural bases fused; Rt. neural arch present
S	N	N	Proximal 1/3 missing
S	T	N	
S	T	N	
N	N	N	RNS
S	T	N	Medium width, incomplete Rounded, subspherical; allochthonous
M	T,L	N	Most of both anterior processes absent
S-M	T,LC	N	Very thin, incomplete
N	T	N	Faceted crown + part of root; well preserved
N	T	N	
N-L	T	N	Narrow, incomplete

AK-491-V-045	Dosal rib fragments	1.4--3.7	N	N	L
AK-491-V-046	Partial neural arch		1.7 N	N	L
AK-491-V-047	Partial dorsal NS ?		3.8 N	N	L
AK-491-V-048	Dorsal rib frags.	2.2, 3.2	N	N	L
AK-491-V-049	Hadrosaur tooth		1.6 N	N	N
AK-491-V-050	Hadrosaur tooth		3.6 N	N	N
AK-491-V-051	IND bone fragment		3.5 N	N	L
AK-491-V-052	IND bone frags.	1.4-1.7	N	N	L
AK-491-V-053	Neural Spine frag.		1.9 N	N	L-M
AK-491-V-054	Tuff cobble	3-4.5			
AK-491-V-055	IND bone fragment		4.2 N	N	L
AK-491-V-056	Metatarsal II,rt.pes		12.5 N	N	L
AK-491-V-057	Med. Caudal chevr.		11.2 N	N	L

S	T,L,S	N	Mid-rib to base of head; proximal end highly fractured
S	T	N	Both unfused bases + NC walls; Caudal vert. ?
M-P	T,L,C	N	Punky and crushed; poorly preserved
M-P	T,L,	N	Punky and poorly preserved
S	T	N	Root only
S	T	N	Complete tooth, crown with apical facet
S	T,S	N	Very thin, quadratojugal or pterygoid
S	T,L	N	Very thin, quadratojugal or splenial
M-H	T,L	N	Distal end of dorsal neural spine?
			Well-rounded, flat-low sphericity; broken, allochth.
S	T,L	N	
M-H-P	T,L,C	N	Proximal end punky--crushed & distorted
M-H-P	T,S,	N	Minus one proximal process

AK-491-V-058	Lt. dorsal rib sect.	13.5 N	N	L
AK-491-V-059	Part. Caudal NA	2.3 N	N	L
AK-491-V-060	OT	1.9 N	N	N
AK-491-V-061	IND bone fragment	1.8 N	N	L
AK-491-V-062	Medial caudal NA,S	13.6 N	N	L
AK-491-V-063	Metacarpal III ?	10.8 N	N	L-M
AK-491-V-064	IND bone fragment	2.2 N	N	N
AK-491-V-065	IND bone fragment	1.9 N	N	L
AK-491-V-066	Rt. pedal ph2-3d IV	4.4 N	N	N-L
AK-491-V-067	Cranial fragment ?	2.7 N	N	N
AK-491-V-068	OT	1.6 N	N	N
AK-491-V-069	IND bone fragment	2.8 N	N	M
AK-491-V-070	OT	1.4 N	N	N
AK-491-V-071	Caudal postzygap.	2.6 N	N	N-L

M-H	T,L	N	Proximal end with most of head, tubercle absent unfused neural base + neural canal	
N-S	T,S	N		
N-S	T	N	Narrow, incomplete	
M-H	T	N	Rib chip ? Unfused bases, neural arch crushed; distorted laterally	
S-M	T,S	N	Both ends highly abraded; allochthonous?	
M-H	T	N		
M	T,L,S	N	Rib chip ?	; transported, rewored?
M	T,L	N	Rib chip ? Excellent preservation and detail	
N	N	N		
S-M	T,S	N		
N	T	N	Medium width, incomplete	
M-H	T,L	N	Subrounded-subangular; Allochthonous?	
S	T	N	Narrow, incomplete Single zygapophysis & part of neural spine base	
M-H	T,L	N		

AK-491-V-072	Ant. Dors. Centrum		3.8 N	N	L-M
AK-491-V-073	Dorsal rib section		5 N	N	L
AK-491-V-074	Cranial ? Fragments	0.8 & 2.0	N	N	L
AK-491-V-075	Dorsal rib fragment		2.6 N	N	L
AK-491-V-076	OT		2.4 N	N	N
AK-491-V-077	Partial right humerus		20.7 N	N	L
AK-491-V-078	Pedal ph2-3d IV		2.9 N	N	N-L
AK-491-V-079	IND bone fragment		2.4 N	N	N-L
AK-491-V-080	Left dentary frag.		2.9 N	N	L
AK-491-V-081	Dorsal rib fragment		2.5 N	N	L
AK-491-V-082	OT		1.3 N	N	N
AK-491-V-083	Mid caud. Centr.		4 N	N	L-M

M-P	T,L	N	Highly fractured and crushed in part; allochthonous? Proximal below head; punky & crushed
M-H-P	T,L,S	N	Thin bone chips
S-M	T,L	N	Punky; transported ?
M-H	T,L	N	Thin, moderatly wide, incomplete
S	T	N	
M-H-P	T,L,C	N	Proximal half punky & crushed; radial crest present Not highly compressed or asym., Rt. or Lt. not clear
N-S	L margin break	N	
M	T,L	N	Very thin, bone chip, transported ?
M-H	T	N	Part of the vent.margin & Meckelian groove; poor pres.
M-H-P	T	N	Piece of mid-rib; poor preservation; transported ?
N	T	N	Narrow, incomplete Lower medial position; NB & LP bases unfused;
M	N	N	transp?

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	AK-491-V-084	Part. Caud.NS & NA	3.9 N	N	L
	AK-491-V-085	Dorsal rib section?	7.1 N	N	L
	AK-491-V-086	Carpal ?	3 N	N	L-M
	AK-491-V-087	Post.Caudal centr.	3.4 N	N	M
	AK-491-V-088	Part.Post.Dors.NA	8.7 N	N	L
	AK-491-V-089	Tyrannosaur tooth	3.5 N	N	L
	AK-491-V-090	OT	4.8 N	N	N-L
AK-491-V-148	AK-491-V-091	Tooth fragment ?	0.5		
	AK-491-V-092	Dorsal rib section	11 N	N	L-M
	AK-491-V-093	Dorsal rib fragment	4.5 N	N	L-M
	AK-491-V-094	Neural arch bases 1.7 & 1.10	N	N	L-M
	AK-491-V-095	Post. Caudal centr.	2.7 N	N	N
	AK-491-V-096	Left squamosal	8.7 N	N	L

M-P	T,S	N	Unfused neural bases, base of NS, postzygaps absent
M-P	T,S	N	Section with base of head; Possible distorted quadrate
M-P	T	N	Poor preservation & detail; transported?
M-P	L-margin break	N	Unfused neural bases; poor preservation
M-P	T,L,C	N	Unfused neural bases; rt. lat. Process base only
S-M	T	N	Premaxillary crown; slight apical facet
S	T	N	Narrow, long, & incomplete RNS
S-M	T	N	Mid to distal rib section
S-P	T,C	N	Poor preservation
S-P	T	N	Unfused bases with partial neural canals
N-S	N	N	Neural bases fused + part. NA; excellent preservation
S	T,L,C	N	Anterior end of anterior process absent

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ANALYSIS 2004

AK-491-V-097	Scapular section ?	10.4 N	N	L-M
AK-491-V-098	IND bone fragment	2 N	N	L
AK-491-V-099	Part. Caudal centr.	5		
AK-491-V-100	OT	8.2 N	N	L
AK-491-V-101	Ph. 1,d III, left manus	1.9 N	N	L
AK-491-V-102	OT	1.8 N	N	L
AK-491-V-103	Part. Dors. Vert NA	6 N	N	L
AK-491-V-104	Base of caudal NS	3.1 N	N	L-M
AK-491-V-105	Medial caudal centr	4.1 N	N	L
AK-491-V-106	Right dentary	17.5 N	N	L
AK-491-V-107	OT	2.3 N	N	N
AK-491-V-108	OT	1.8 N	N	N
AK-491-V-109	Post. Caudal centr.	2.8 N	N	N
AK-491-V-110	Caudal spine frags. 2.2 & 2.4	N	N	N-L

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S-P	T,L,C	N	Poorly preserved
S-M	T,S	N	RNS
N-S	T	N	Unusually long, narrow, incomplete
S-M	T	N	
S	T	N	Very narrow, incomplete
S-P	T,L,C	N	Left side of NA; basal part of lat wide, thin, & process, poor pres. incomplete
S	T	N	Base of NS with both postzygapophyses
S	T	N	Lat. & neural bases unfused; some margins punky NC; highly fractured along length
S-P	T,L,C	N	fractured along length
N	T	N	Very thin & narrow, incomplete
N	T	N	Moderately thin thin, incomplete Neural bases fused, nubs of NA present; excel. Pres.
N	T	N	
N-S	T	N	Most of NS to proximal base with postzygapophs

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ANALYSIS 2004

AK-491-V-111	Dorsal rib section	11.5 N	N	L
AK-491-V-112	Post. Caudal centr.	2.5 N	N	N
AK-491-V-113	Right dorsal rib	16.3 N	N	L
AK-491-V-114	OT	5.9 N	N	L
AK-491-V-115	Ant. Dors. Centrum	6.7 N	N	L
AK-491-V-116	Post.Caudal centr.	3.2 N	N	L
AK-491-V-117	Part. Metacarpal II	2.5 N	N	L-M
AK-491-V-118	OT	1.5 N	N	L
AK-491-V-119	Dorsal rib section	3.9 N	N	L
AK-491-V-120	Left quadrate sect.	5.4 N	N	L
AK-491-V-121	Post. Caudal centr.	3.3 N	N	L
AK-491-V-122	IND bone fragment	8 N	N	L
AK-491-V-123	Partial left ulna	19.1 Y?	N?	L
AK-491-V-124	Hadrosaur tooth	0.4 N	N	
AK-491-V-125	IND bone fragment	2.3 N	N	H

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S	T,L	N	Distal to mid-rib Neural bases fused; Excellent preservation
T,L	N	N	Complete except for distal third; highly fractured
S	T,L,S	N	Moderately wide, unusually long, incomplete
S	T	N	Arcuate lesions (osteochondr.); unfused bases
S	T,L,C	N	Neural bases unfused; excellent preserv.
N-S	T	N	Proximal ? End; poorly preserved
M-P	T,L	N	Very narrow, thin, & incomplete
N-S	T	N	Mid-rib; MISSING
S	T	N	Dorsal 1/4 + partial pterygoid
S	T,L	N	Unfused neural bases; excellent preservation
N-S	N	N	Long bone fragment ?
S-P	T,L	N	3 bit marks? on internal surface, prox. 1/3; crushed
S-P	T,L,C,S	N	Partial crown Piece of metacarpal or metatarsal?
M	T,S	N	Allochthonous?

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ANALYSIS 2004

AK-491-V-126	IND bone fragment	2.4 N	N	N-L
AK-491-V-127	Caudal NA,NS sect	2.1 N	N	M-H
AK-491-V-128	Dorsal rib section	3.6 N	N	L
AK-491-V-129	IND bone fragment	5.5 N	N	M-H
AK-491-V-130	Left laterosphenoid	5.6 N	N	S-M
AK-491-V-131	Hadrosaur tooth	1 N	N	N-L
AK-491-V-132	Part. Rt. dorsal rib	11.7 N	N	L
AK-491-V-133	Part. Neural arch	2.5 N	N	L
AK-491-V-134	Dorsal rib section	4.4 N	N	L
AK-491-V-135	OT	2 N	N	L
AK-491-V-136	OT	2.7 N	N	L
AK-491-V-137	IND bone fragment	2.5 N	N	L
AK-491-V-138	Neural arch frags.	3.1 N	N	L-M
AK-491-V-139	IND bone fragment	1.2 N	N	L
AK-491-V-140	MATRIX			
AK-491-V-141	MATRIX			

S	T,L	N	Distal part of dorsal rib ? Base of NS--highly abraded zygapophs;alloch? ?	
S-M	T,L	N	Mid-rib section; fairly well preserved	
S	T,L	N	Allochthonous- reworked ?	
M-P	T,L	N	Some margins & ends of processes absent	
M-P	T,L	N	Highly faceted crown only	
N	T	N	Base of head to distal 2/3rds. Unfused base & half of neural canal; highly fractured	t; transported?
S-M	T,L,C	N	Distal end of rib	
S	T,L	N	Narrow, incomplete	
S	T	N	Very narrow, incomplete	
S	T	N	Long bone chip; transported ?	
M	T,S	N	Zygapophyses present; trans[pr	
S	T,L	N		
S	T	N		

Misidentified matrix

Misidentified matrix

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AK-491-V-142	IND bone fragment		3.2 N	N	N
AK-491-V-143	<i>Troodon formosus</i>				
AK-491-V-144	Dorsal rib section		3.2 N	N	L
AK-491-V-145	IND bone fragment		3.9 N	N	L-M
AK-491-V-146	Part. Caudal centr.		3.8 N	N	L
AK-491-V-147	Dorsal rib frags.	4.0 & 5.5	N	N	L
AK-491-V-148	Neural arch frag.?		3		
AK-491-V-149	<i>Right frontal</i>	2.3-4.3	N	N	L
AK-491-V-150	OT		5.8 N	N	L
AK-491-V-151	Neural Spine frag.		0.5		
AK-491-V-152	IND bone chip				
AK-491-V-153	IND bone fragment				
AK-491-V-154	Partial dorsal rib		26		
AK-491-V-155	<i>Post. Caudal centr.</i>		2.8 N	N	L-M
AK-491-V-156	Partial dorsal rib		10.1 N	N	L-M
AK-491-V-157	Lt. metacarpal IV		10.3 N	N	L
AK-491-V-158	<i>Carpal ?</i>		2.3 N	N	?

S	T,L	N	Very thin; on matrix
			ON LOAN
			Mid-rib section; fairly well preserved
S	T,L	N	
M-P	T	N	Poorly preserved; Anterior? Crushed,
M-P	T,L,C	N	punky
S-M	T	N	From two different age individuals
			RNS
S	T,L,C	N	almost complete; highly fractured
S	T	N	Wide, thin, & incomplete
			RNS
			RNS
			RNS
			RNS
S-M	N	N	Neural arch with fused neural bases Head & distal end absent; prox.
S-M	T,L,C	N	Crushed Series of transverse fractures
S	T	N	Could be a highly rounded reworked frag.
M-H	?	N	

AK-491-V-159	Hadrosaur tooth		1.9 N	N	N
AK-491-V-160	Left femur		42 N	N	L
AK-491-V-161	Partial left fibula		6.7 N	N	L-M
AK-491-V-162	Partial radius?		24 N	N	M
AK-491-V-163	Right ulna		24 N	N	L
AK-491-V-164	Neural arch & NS		10.7 N	N	L
AK-491-V-165	Right humerus		23 N	N	L
AK-491-V-166	Hadrosaur tooth Part. Post.		3.7 N	N	L
AK-491-V-167	Cerv.NA		5.5 N	N	L
AK-491-V-168	Troodon formosus		1 N	N	N
AK-491-V-169	Partial squamosal ?	3.8--6.2	N	N	L
AK-491-V-170	IND bone fragment		1.5 N	N	L
AK-491-V-171	Dorsal rib frags.	2.7 & 3.5	N	N	N

N	T	N	Unfaceted crown + patial root;on matrix
S-H-P	T,L,C	N	2/3 highly fractured, prox. 1/3 punky, crushed
M	T	N	Proximal 1/5; little cortical bone
M-H-P	T,L,C,S	N	Very punky, crushed, fractured; diagenetic?
M-P	T,L	N	Proximal internal margin punky; part. Dors. NA against NS almost complete, dip 35 to piece of NA
S	T	N	fractured with punky spots
S-M-P	T,L,C	N	Slightly faceted crown + nearly complete root
S	T	N	
M	T,L,S	N	Partial right side Mesial crown with lingual facet, no root
N-S	T	N	Mid section and anterior process; larger than usual
S-M-P	T,L,C	N	
S	T,L	N	Rib chip ? Mid-rib & base of head; latter crushed
S-M	T,L,C	N	

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AK-491-V-172	NA & NB frags.	1.0 & 3.1	N	N	N-L
AK-491-V-173	Part. Dorsal NA		4.3 N	N	I
AK-491-V-174	OT		2.4 N	N	N
AK-491-V-175	Part. Quadratojugal		3.5 N	N	L
AK-491-V-176	IND bone fragment		2.1 N	N	L-M
AK-491-V-177	Post. Caudal centr.		3 N	N	N-L
AK-491-V-178	Dorsal rib frags.	1.3--2.2	N	N	L-M
AK-491-V-179	Ph. 1, dII, left manus		4.2 N	N	L
AK-491-V-01fl	IND bone fragment		1.4 N	N	N-L
AK-491-V-02fl	Caud. Chevr. Sect.		1.9 N	N	L-M
AK-491-V-03fl	Part. Caudal centr.		2.2 N	N	L-M
AK-491-V-04fl	IND bone fragment	2.2 & 2.3	N	N	L-M
AK-491-V-05fl	OT		2.7 N	N	L
AK-491-V-06fl	OT		2 N	N	L
AK-491-V-07fl	IND bone fragment		1.3 N	N	N

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N-S	T	N	Caudal ? Roof of NA-base of neural spine; 1
M-P	T,L,C	N	broken zygapoph Very thin, moderately wide, & incomplete
N-S	T	N	Most probably a left; approx. 50% of element
N-S	T,L	N	Broken caudal chevron or rib fragment ?
S	T,L	N	Neural bases unfused; excellent preserv.
N	N	N	Poorly preserved, transported, reworked ?
M-P	T	N	See #162-165; excellent preservation & details
S	T	N	Bone chip, fairly angular
S	T,L	N	Piece of proximal process ?
S-P	T,L	N	Unfused neural bases
S-P	T,L	N	Subrounded; nonspherical
S	T,L	N	Moderately wide, incomplete
N	T	N	Narrow, incomplete
S	T,S	N	Piece of caudal chevron ?

AK-491-V-08fl	IND bone fragment	0.9 N	N	N
AK-491-V-09fl	Part. Caudal NS	2.4 N	N	L
AK-491-V-10fl	IND bone fragment	4.6 N	N	N-L
AK-491-V-11fl	Part. Coronoid proc	2.2 N	N	L
AK-491-V-12fl	IND bone fragment	2.4 N	N	N
AK-491-V-13fl	Post. Caudal centr.	2.7 N	N	M
AK-491-V-14fl	Hadrosaur tooth	2.7 N	N	N
AK-491-V-15fl	Dorsal rib section	4.5 N	N	L
AK-491-V-16fl	Caudal centrum	3.3		
AK-491-V-17fl	IND bone fragment	2.3		
AK-491-V-18fl	Partial dorsal NS	3.1 N	N	N-L
AK-491-V-19fl	OT	2.4 N	N	L
AK-531-V-001	Troodontid	1.1 N	N	L-M
AK-531-V-002	Post. Caudal centr.	1.3 N	N	N-L
AK-531-V-003	OT	5.6 N	N	L

N	T,S	N	Fresh, not transported or reworked Base of neural spine with 1 part. Zygapoph.	; beat up, transported ?
M-P	T,S;long. Compr	N		
M-P	T,LC	N	Highly fractured thjn bone, cranial ?	
S-M	T,L	N	Very young individual ?	
M-P	T,L	N	Bone splinter, punky	
S-M	T	N	Unfused neural bases	
S	T	N	Highly faceted crown + most of root	
S-M	T,L	N	Left ? Base of head and just below	
			RNS	
S	T,L	N	RNS	A nubs; excellent preserv.
S	T	N	Proximal section Moderately wide, incomplete	
S	T	N	Crown with broken apex; no facets; enamel peeling	
N	T,L	N	Neural bases fused, NA partial	
N	T	N	Unusually wide, typically thin, incomplete	

AK-531-V-004	IND bone fragment	2.3 N	N	H
AK-531-V-005	<i>Troodon formosus</i>			
AK-531-V-006	Caudal chevr. Sect	3.4 N	N	L
AK-531-V-007	Caudal rib section ?	4.3 N	N	L
AK-531-V-008	<i>Troodon formosus</i>			
AK-531-V-009	<i>Post. Caudal centr.</i>	<i>1.3 N</i>	N	N
AK-531-V-010	<i>Post. Caudal centr.</i> Caudal chevr.	<i>0.8 N</i>	N	N
AK-531-V-011	Frag.	1.1 N	N	L
AK-531-V-012	Hadrosaur tooth	1.4 N	N	N
AK-531-V-013	<i>Exoccipital frag.</i>	2.7 N	N	L
AK-531-V-014	Part. Neural arch	2.2 N	N	L
AK-531-V-015	Dorsal rib section	8 N	N	N-L
AK-531-V-016	Caudal centrum	<i>2.8</i>		
AK-531-V-017	Dorsal rib section	2.7 N	N	L
AK-531-V-018	Dorsal rib tip?	3.7 N	N	N-L
AK-531-V-019	Part. Caudal NS	3.8 N	N	L-M

H-P	T,L	N	Subrounded, subspherical; transported- reworked	A nubs; excellent preserv.
S	T,L	N	On loan to DMNH Proximal process section, artic. Head broken off	
S	T,L,C	N	Mid-rib; broken longitudinally & displaced	
N	N	N	On loan to DMNH Neural bases fused, NA partialy	
N	N	N	Very young individual; neural bases fused; NA nubs	
N-S	T	N	Proximal articular head	
N	T	N	Unfaceted crown	
S	T,L	N	Piece of ventral articular base	
N	T	N	Caudal vert.? Unfused base & part of NC	
N-S	T,S	N	Mid-rib; well preserved	
S	T,L	N	RNS Mid-rib section; transported ?	
N-S	T	N	Distal rib terminus Base of spine with both	
S-M	T,L,S	N	postzygapophs; poor preserv.	

AK-531-V-020	Dorsal rib section		4.5 Y?	N	L
AK-531-V-021	Dorsal ?rib section		3.6 N	N	N-L
AK-531-V-022	IND bone fragment		1.6 N	N	N-L
AK-531-V-023	Hadrosaur tooth		1 N	N	N
AK-531-V-024	Cervical NA frag.		3.7 N	N	L
AK-531-V-025	Part. Dorsal rib	5.6 & 9.8	N	N	L
AK-531-V-026	OT	0.8 & 1.3	N	N	N
AK-531-V-027	OT ?	0.5 & 0.8	N	N	L
AK-531-V-028	Ph. 2, d II, Left pes		5.2 N	N	N-L
AK-531-V-029	Hadrosaur tooth		1.7 N	N	N
AK-531-V-030	Dorsal vert. frag.		2.7 N	N	L
AK-531-V-031	Part. Manal unguual		3.3 N	N	L

S-M	T	N	Mid-rib to base of head; possible single bite mark
S	T	N	Distal rib terminus; could be anterior-most dorsal
N	T,S	N	Possible cranial bone chip
S	T,L	N	Unfaceted crown; base of crown split
S	T	N	Single wall of neural canal; possibly high ant. Dorsal
M-P	T,L,C	N	Right ? Rib, mid-head base; distal end punky & crushed
N	T	N	Wide, thin, & incomplete
S	T	N	Wide, thin, & incomplete
S	N	N	Possible slight pathologies; excellent preservation
S	T,L	N	Unfaceted crown; part of one proximal margin gone
N	T,L	N	Distal end of transverse process
S	T,L	N	Digit III of manus ? Right margin missing

AK-531-V-032	Post. Caudal centr.	1.3 N	N	N
AK-531-V-033	Caudal ? NA frags. 1.3--1.7	N	N	L
AK-531-V-034	Part. Ant. Caud.NS	5.6 N	N	L
AK-531-V-035	Part. Right jugal	6.8 N	N	N-L
AK-531-V-036	IND bone fragment	4.9 N	N	L
AK-531-V-037	IND bone fragment	1.5 N	N	L
AK-531-V-038	Part. Dorsal TP	4 N	N	L
AK-531-V-039	Part. Laterosphenoid	5.4 N	N	L
AK-531-V-040	Ant.dors. NA base	2.9 N	N	N
AK-531-V-041	Mid-caud. NA base	1.7 N	N	L
AK-531-V-042	Hadrosaur tooth	2.6 N	N	N
AK-531-V-043	Post. Caudal centr.	3.3 N	N	N
AK-531-V-044	IND bone fragment	2.2 N	N	L-M

N	T,L	N	Neural bases fused, NA nubs present
S	T,L	N	Unfused bases + NC walls + base of NS?
S-M	T,L,S	N	Distal 1/3 of caudal or distal 2/3 of ant. Dorsal
N-S	T,L	N	Mid-corpus, minus ends & processes; highly frac
S-M-P	T,L	N	Bone "splinter" with some marginal abrasion
S	T,L	N	Bone chip, transported ?
S	T	N	Distal end of transverse process absent
S	T,L,C	N	Right laterosphenoid, highly fractured, ends absent
N	T	N	Unfused neural arch base; well preserved
S	T	N	Unfused neural arch base
S	T	N	Unfaceted crown + half of root
N	T	N	Unfused neural bases
S-P?	T,L	N	Bone chip

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AK-531-V-045	Partial right dentary	11.5 N	N	L
AK-531-V-046	Partial left jugal	6.2 N	N	L
AK-531-V-047	Partial surangular	3.9 N	N	N
AK-531-V-048	Manal ungual, d II	2.7 N	N	N
AK-531-V-049	Caudal NS frag.	2.2 N	N	L
AK-531-V-050	Dors. Neural spine	6.2 N	N	L-M
AK-531-V-051	IND bone fragment	1.9 N	N	L-M
AK-531-V-052	Post. Caudal centr.	2.6 N	N	N
AK-531-V-053	Ant. Caudal centr.	4.1 N	N	N-L
AK-531-V-054	Post. Caudal centr.	2.7 N	N	L
AK-531-V-055	Cervical NA base	2.7 N	N	L
AK-531-V-056	IND bone fragment	1.4 N	N	L
AK-531-V-057	Part. Rt. dorsal rib	12.5 N	N	L

M-H-P	T,L,C	N	Posterior 2/3 including partial coronoid process	
S	T,L	N	Posterior 1/3 of corpus	
N	T,L	N	Anterior end-- process for fusion with articular	
N	N	N	Excellent preservation & details	
S	T,L	N	Both postzygapophyses	
M-P	T,L	N	Cortical bone gone from one side; highly fractured in part	
S	T,L	N	Fairly well preserved	
N	T	N	Fused neural bases; neural arch nubs	
N-S	N	N	Neural & lateral bases unfused; well preserved	
N-S	N	N	Fused neural bases; neural arch nubs	
N	T,L	N	Unfused base + partial neural canal wall	
S	T	N	Piece of neural arch ?	Rare element
S	T,L,C	N	Mid-rib to almost end of head, tubercle absent; lat. Compressed	

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ANALYSIS 2004

AK-531-V-058	IND bone fragment		3.4 N	N	L
AK-531-V-059	IND bone fragment		2.9 N	N	M
AK-531-V-060	Lt. pes, ph1, d II		5.7 Y	N	L
AK-531-V-061	Left premaxilla		6.4 N	N	L
AK-531-V-062	Part. Cervical NA	1.5 & 2.5	N	N	L
AK-531-V-063	Hadrosaur tooth		2.4 N	N	N
AK-531-V-064	Partial dorsal NS?		3.6 N	N	L
AK-531-V-065	OT		1.6 N	N	L
AK-531-V-066	IND bone fragment		1.1 N	N	H
AK-531-V-067	Caud. NS,NA frags	2.2--3.9	N	N	L
AK-531-V-068	IND bone fragment		2.3 N	N	H
AK-531-V-069	Ant. Dorsal centrum		3.8 Y BINGO	N	L
AK-531-V-070	Neural spine frag.		2.3 N	N	L

S	T,S	N	Small anterior dorsal rib piece ?
M-P	T	N	Subangular, low sphericity; allochthonous ? Multiple bite marks on dorsal proximal surface
S	N	N	
M-P	T,L,C	N	Highly fractured Rt. neural base, unfused + wall of NC; Part.
S	T,L	N	Zygapophysis
N-S	T	N	Highly worn crown + most of root
S-M	T,L,S	N	Part of distal 1/2; highly fractured
N-S	T	N	Moderately wide, incomplete
S-M	T	N	Subangular, low sphericity; allochthonous ?
S	T,L,S	N	Caudal NS base & unfused NB + different NA & unfus. Base
H-P	T	N	Rounded, subspherical; allochthonous-reworked ?
S	N	N	Unfused NB; several lesions & possible bite mark
S	T,L	N	Anterior dorsal vertebra ?

AK-531-V-071	Partial caud. Chevr.	2.4 N	N	L
AK-531-V-072	Partial left jugal	4.4 N	N	N
AK-531-V-073	IND bone fragment	1.8 N	N	N
AK-531-V-074	IND bone fragment	2 N	N	N
AK-531-V-075	Part. Caudal chevr.	4.5 N	N	N
AK-531-V-076	IND bone fragment	2.7 N	N	L
AK-531-V-077	Partial left dentary	9.5 N	N	M-H
AK-531-V-078	Ant. NA & part. NS 6.6 & 8.0	N	N	M
AK-531-V-079	IND bone fragment	3.5 N	N	L
AK-531-V-080	Ant. Caud. Centrum	5.8 N	N	L
AK-531-V-081	IND bone fragment	1.4 N	N	L
AK-531-V-082	Part. Lt. dorsal rib	10.7 N	N	L
AK-531-V-083	Post. Dorsal rib	2.5 N	N	L
AK-531-V-084	Post. Caudal centr.	5.2 N	N	L
AK-531-V-085	IND bone fragment 2.0-2.1	N	N	L

S	T	N	Left proximal-articular end & strut	
S	T,L,S	N	Anterior articular end; highly fractured	
N	T,L,S	N	Partial caudal fragments ?	
N	T,L,C	N	Cranial chip ?	
N	T	N	Most of distal process or post	
M-P	T,L	N	Piece of metacarpal ?	
M-P	T	N	Anterior 1/3 of dentary;allochthonous?	
M-P	T,L,C	N	Neural arch without LP, punky & crushed; NS split in half	e; could be post. Cervical
M-P	T,L	N	Mid-rib section ?	
S	T	N	All bases unfused; ant. Lateral margin broken	
S	T,L	N	Bone chip	
S-P	T,L,C	N	Proximal 1/3, head absent	
S	T	N	Head & base of tubercle	
S	N	N	Neural bases fused; ADULT ?	
M	T	N	Rib fragments ?	

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AK-531-V-086	IND bone fragment		1.2 N	N	L
AK-531-V-087	IND bone fragment		2.9 N	N	N
AK-531-V-088	OT		1.8 N	N	N
AK-531-V-089	Part. Caudal NA,NS		9.5 N	N	L
AK-531-V-090	Part. Caudal vert.		2.2 N	N	L
AK-531-V-091	Ant. Caudal centr.		4.7 N	N	L
AK-531-V-092	Partial left jugal		7.2 Y?	N	L
AK-531-V-093	IND bone fragment		1.8 N	N	L
AK-531-V-094	Post. Caudal NA,NS	1.5 & 5.6	N	N	L
AK-531-V-095	Hadrosaur tooth		3.4 N	N	N
AK-531-V-096	IND bone fragment		4.8 N	N	M
AK-531-V-097	Centrum fragment		1.5 N	N	M

M	T	N	Bone chip; subangular
N	T	N	Piece of surangular ?
S	T	N	Very narrow, incomplete Rt. neural arch & unfused base; distal end of NS gone
S-P	T,L,C	N	Neural bases fused, both neural arches; NS absent
S	T	N	All bases unfused; ant. Lateral margin broken
S-M	S	N	Posterior 1/2; possible bite marks on interior surface
S	T,L	N	Piece of rib ? On matrix
S-M	T,L	N	Lower posterior position; NB unfused, one absent
S	T,L	N	Unfaceted crown + most of root
S	T	N	Subrounded, highly abraded, punky; allochthonous- reworked?
H-P	T	N	Piece of dorsal surface
M-H	T	N	

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ANALYSIS 2004

AK-531-V-098	Post. Caudal centr.	3.4 N	N	M
AK-531-V-099	IND bone fragment 1.8 & 2.2	N	N	L
AK-531-V-100	Post. Caudal centr.	2.4 N	N	N
AK-531-V-101	Part.post cerv.arch	7.6 N	N	L
AK-531-V-102	Dorsal rib section	6.5 N	N	M
AK-531-V-103	Part. Post. Dors.rib	8.2 N	N	N
AK-531-V-104	Partial metacarpal II	3.4 N	N	L-M
AK-531-V-105	IND bone fragment	3.2 N	N	N
AK-531-V-106	Part. Ant. Dors. NA	2 N	N	N-L
AK-531-V-107	Post. Caudal NS	4.1 N	N	N
AK-531-V-108	Hadrosaur tooth	0.9 N	N	N
AK-531-V-109	Post. Caudal centr.	2.8 N	N	N-L
AK-531-V-110	IND bone fragment 2.1--4.0	N	N	M
AK-531-V-111	Hadrosaur tooth	1.6 N	N	N

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ANALYSIS 2004

M	N	N	Unfused NB; allochthonous ?
M	T	N	Bone chips
N	N	N	Neural bases fused with NA nubs; excellent preserv. Right half of the cervical neural arch
S	T,L	N	Distal, laterally crushed, poorly preserved
M-P	T,L,C	N	Distal; well preserved
N	T	N	Distal end, right manus
M	T	N	Very angular, well preserved
N	T,L	N	Lt. side of neural arch; very young individ.
N	T,L	N	Distal 1/3 of spine absent; postzygapophs present
N	T	N	Immature crown-- not fully developed Unfused neural bases; well preserved
N	N	N	
M-H-P	T,L,S	N	Allochthonous?
N	T	N	Slightly faceted crown + 1/3 of root

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ANALYSIS 2004

AK-531-V-112	Rt. scapula frags.	1.7--7.4	N	N	N
AK-531-V-113	Post. Dors.rib sect.		5.7 N	N	L
AK-531-V-114	Post. Caudal centr.		2.7 N	N	L
AK-531-V-115	Partial rt. jugal	3.9 & 5.4	N	N	N
AK-531-V-116	Partial ulna	10 longest	N	N?	L-H
AK-531-V-117	Hadrosaur tooth		1.7 N	N	N-L
AK-531-V-118	Partial dorsal NA	3.7 largest	N	N	L
AK-531-V-119	MATRIX				
AK-531-V-120	Partial dorsal NS		3.4 N	N	N
AK-531-V-121	Partial lt. dorsal rib		12 N	N	N
AK-531-V-122	Metatarsal IV,rt.pes		11.1 N	N	L
AK-531-V-123	OT		2.3 N	N	L
AK-531-V-124	IND bone fragment		2.8 N	N	L
AK-531-V-125	Metatarsal IV,rt.pes		12 N	N	L

S	T,L,C	N	Part.ventr. Margin- mid corpus; part. Dors. Margin-mid
S	T	N	Partial head, tubercle to proximal section of shaft NB unfused; 1/4 of body absent; ant- post crushing
S	T,L	N	
S	T,L,C	N	Partial anterior end
M-H-P	T,L,C,S	N	Highly fractured & poorly preserved Unfaceted crown, small piece of root; malformed?
N	T	N	
S	T,L	N	Highly fractured
			Misidentified matrix
S	T,L	N	Distal end of spine Punky and highly crushed
H-P	T,L,C	N	fragmented mid-rib & head Prox. 1/2 highly fractured, punky; prox-dist.
M-H-P	T,L,C	N	Dislocation
S	T	N	Wide, thin, & incomplete
S	T,L	N	Piece of chevron or post. Cervical rib Series of parallel transverse
S-P	T,L,C	N	fractures

AK-531-V-126	<i>Troodon formosus</i>		1.2 N	N	N
AK-531-V-127	Partial left humerus	8.0 & 19.3	N	N	L
AK-531-V-128	Partial caud. Chevr.		8.2 N	N	L
AK-531-V-129	Partial right fibula		32.5 N	N	L
AK-531-V-130	IND bone fragment		2.5 N	N	L
AK-531-V-131	<i>Post. Caudal centr.</i>		<i>2.7 N</i>	N	N
AK-531-V-132	Dorsal rib section		9.8 N	N	L
AK-531-V-133	Left (?) fibula		35.4 N	N	L
AK-531-V-134	Partial caud. Chevr.		3.9 N	N	L
AK-531-V-135	IND bone fragment		1.7 N	N	N
AK-531-V-136	Partial dorsal NS		3.4 N	N	L
AK-531-V-137	Post. Caudal centr.		<i>2.9 N</i>	N	L
AK-531-V-138	Part. Dorsal NS		2.6 N	N	L
AK-531-V-139	Dorsal rib section		4 N	N	N

N	T	N	Mesial, lingual facet; well preserved crown
M-H-P	T,L,C	N	Proximal 1/3 highly crushed, punky, absent in part
S-M	T	N	Complete distal post/process Proximal end absent; mid-shaft highly fractured
S-M-P	T,L,C	N	Partial coronoid process ? Neural bases fused, NA nubs present
S	T,L	N	Mid-rib section; punky and crushed; later.compressed
N	T	N	Proximal end partial, punky, distorted; dist. Twisted
M-P	T,L,C	N	Most of distal process or post
S-M-P	T,L,C	N	Cranial chip ?
S	T	N	Distal section, split longitudinally Unfused neural bases; excellent preservation
N	N	N	Tip of spine, Mid-rib section ?
S	T,L	N	
M-P	T,L,C	N	

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AK-531-V-140	Post. Caudal centr.		3.2 N	N	N
AK-531-V-141	Dorsal rib section		10.5 N	N	L
AK-531-V-142	Hadrosaur tooth		1.5 N	N	N
AK-531-V-143	IND bone fragment		2.5 N	N	N
AK-531-V-144	Partial dorsal rib	9.5 & 15.5	N	N	L-M
AK-531-V-145	IND bone fragment		3.2 N	N	N
AK-531-V-146	Partial caudal NS		2 N	N	N
AK-531-V-147	Ungual		3.2 N	N	N
AK-531-V-148	Right fibula		35.9 N	N	L
AK-531-V-149	Hadrosaur tooth		1.2 N	N	N
AK-531-V-150	Dorsal rib section		4 N	N	N
AK-531-V-151	Right quadrate frag		2.9 N	N	L

N	N	N	Unfused neural bases; excellent preservation
M-P	T,L,C	N	Mid-rib to near base of head; crushed/compress ed
N	T	N	Moderately faceted/worn crown; large denticles
N	T,L	N	Fresh bone chip
H-P	T,L,C	N	Most of rib shaft; very punky and crushed
N	T,L	N	Fresh bone sliver
N	T	N	Distal end of post. CNS or very young individual
N	T	N	Digit III of manus or pes of very young individual
S-M-P	T,L,C	N	Shaft highly fractured, punky in part
M	T,L	N	Unfaceted/worn crown; lingual side highly fractured
M-P	T,L,C	N	Base of head; punky crushed/compress ed
S	T,L	N	Ventral end of quadrate

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AK-531-V-152	Partial neural arch		2.9 N	N	L
AK-531-V-153	Post. Caudal centr.		3.3 N	N	N
AK-531-V-154	Partial dentary	19 ?		Rest of dentary jacketed with 532- 138 & 139	
AK-531-V-155	Medial caud. Centr.		4.4 N	N	N
AK-531-V-156	Right humerus		22.5 N	N	L
AK-531-V-157	Rt. quadratojugal		5 N	N	L
AK-531-V-158	Part. Dorsal rib		11.7 N	N	L
AK-531-V-159	Part. Caudal NS,NA		7.8 N	N	L-M
AK-531-V-160	COPROLITE ?		2.9		
AK-531-V-161	Dorsal rib section		4.8 N	N	N
AK-531-V-162	Dorsal rib section		8 N	N	L
AK-531-V-163	Indeterminant bone		4.6 N	N	L-M
AK-531-V-164	Dorsal rib section		5.7 N	N	N

M	T,L	N	Patial zygapoph. & neural canal ? Unfused neural bases; excellent preservation
N	T	N	
N	N	N	Mold of tooth rows + bone frag. Posteriormost medial caudal; excellent preservation Highly fractured, crushed/compress ed in part
S	T,L,C	N	
S	T,L	N	2/3rds of element; broken and glued Mid-rib, most of shaft; well preserved
S	T,L	N	Highly fractured, crushed/compress ed in part
M-P	T,L,C	N	
N	T,S	N	Rounded, subspherical clast or transported coprolite Posterior dorsal rib shaft; well preserved
N	T	N	Mid-rib to distal; well preserved
M	T,L	N	Non-hadrosaurine ?
N	T	N	Mid-rib; well preserved

AK-531-V-165	Ulna	20		
AK-531-V-166	Part. Post. Dors.NS	5.8 N	N	L
AK-531-V-167	Dorsal rib section	8 N	N	L
AK-531-V-168	Post. Caudal centr.	2.7 Y BINGO	N	N
AK-531-V-169	Post. Caudal NA,NS	3.7 N	N	L
AK-531-V-170	Part. Left humerus	22 N	N	L
AK-531-V-171	Partial caudal NS	3.1 N	N	L
AK-531-V-172	IND bone fragment	1.5 N	N	M-H
AK-531-V-173	Dorsal rib section	3.9 N	N	L
AK-531-V-174	Dorsal rib section	4.7 N	N	L
AK-531-V-175	IND bone fragment	1.4 N	N	L
AK-531-V-176	Lt.dorsal rib section	10.9 N	N	L

			Included in large jacket with AK-532V elements
S-M	T,L	N	2/3rds of NS, one zygapoph. Absent; distal end absent
S-M	T,L,S	N	Interior section of mid-rib of a large/adult rib
N	N	N	Unfused neural bases; multiple bite marks--see Sheet 1.
S	T,L	N	Proximal 2/3 of NS; NA missing part of unfused NB&PZY
M-P	T,L,C	N	Proximal half crushed, punky in part; OC & RC absent
N	T	N	Distal 1/4 of NS from medial-post. Caudal vertebra
S-M	T,L	N	Subrounded; low sphericity; allochthonous?
S	T,S	N	Mid-rib section; well preserved
N	T,S	N	Distal rib section; well preserved
N	T,L	N	Well preserved
N	T,S	N	Base of head-mid shaft; tubercle base; well preserved

AK-531-V-177	Head of lt.dorsal rib	10.8 N	N	L-M
AK-531-V-178	Right ulna	23 Y BINGO	N	L-M
AK-531-V-179	Partial lingual plate	4.5 N	N	L
AK-531-V-180	Right quadrate sect.	7.9 N	N	L
AK-531-V-181	Rt.exoccipital sect.	3.6 N	N	L
AK-531-V-182	Pos-med.caud cent	4.3 N	N	L
AK-531-V-183	Post. Dorsal rib sec	5.6 N	N	L
AK-531-V-184	Part. Caudal vert.	1.6 N	N	L
AK-531-V-185	Part. Lt. dorsal rib	14 N	N	L
AK-531-V-186	Part. Lt. astragalus	8.6 N	N	M
AK-531-V-187	Part. Manal ph.1d II	2.3 N	N	L
AK-531-V-188	Rib ? Section	3.1 N	N	L

S-M-P	T,L,C	N	Highly fractured to crushed/compressed
S-M-P	T,L,C,S	N	Distal half highly fractured/crushed;
S	T,L	N	multiple bite marks
S	T,L	N	Unusually thin
			Ventral end of quadrate
N-S	T,L	N	Ventral end/ BO articulation section; well preserved
N-S	T,L	N	Unfused N & L bases; pathology-one LP not formed
S	T	N	Mid-rib; could be very young individual
N-S	T	N	Neural spine absent; NB fused; well preserved
S-P	T,L,C	N	Base of head to mid-rib;sections highly fractured
M	T,L,C	N	Roughly half of element; unusually large, highly fractured
N-S	T	N	Distal end of phalanx
N-S	T	N	Anterior or posterior dorsal if a rib; well preserved

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ANALYSIS 2004

AK-531-V-189	Part. Caudal NA,NS		3.6 N	N	L
AK-531-V-190	Rib section		3.9 N	N	L
AK-531-V-191	Metacarpal V,lt man		3.4 N	N	L
AK-531-V-192	Tibia ?		38		
AK-531-V-193	Dorsal rib section		5.4 N	N	L
AK-531-V-194	Right ? Femur		43 N	N	M
AK-531-V-195	Lt.pes metatars. IV		15.4 N	N	L
AK-531-V-196	Partial scapula		13.2 Y BINGO	N?	L
AK-531-V-197	Part. Dorsal NA,NS	1.8--4.0	N	N	L
AK-531-V-198	Part. Caudal chevr.		6.5 N	N	L
AK-531-V-199	Lt. pes,ph 1, d II		5.7 N	N	L
AK-531-V-200	Right scapula		34.5 N	N	L
AK-531-V-201	Lt. pes, ph1,d IV		4.8 N	N	L

S	T	N	Base of neural spine and roof of neural arch; PZY
N	T	N	Anterior or posterior dorsal if a rib; well preserved
M	T	N	Unusually small; pathological proxiamal articular end ? RNS
N-S	T	N	Mid-rib to distal section, well preserved
M-H-P	T,L,C	N	Very punky-crushed/distorted; jacketed with 201
L	T,L,C	N	Highly fractured at mid-section; well preserved
M-P	T,L,C	N	Mid-post.blade section;highly fractured;multi.bite marks
M-P	T,L,C	N	Pieces of NS, NA, & lateral spine; highly fragmented
S	T,L	N	Distal process/post minus tip;proximal processes gone
N-S	T	N	Well preserved
S-P	T,L,C	N	Fairly well preserved, some internal punk;
S	L,S	N	jacketed with 203 Well preserved

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ANALYSIS 2004

AK-531-V-202	Dorsal rib section	5.8 N?	N	L
AK-531-V-203	Part. Left humerus	29 N	N	M
AK-531-V-204	Right tibia	34.5 N	N	L
AK-531-V-205	Part.caud. NA & NS	6.2 N	N	L
AK-531-V-206	Metacarpal IV, left 8.0+	N	N	L
AK-531-V-207	IND bone fragment	4 N	N	L-M
AK-531-V-208	OT	7.3 N	N	L
AK-531-V-209	OT	2.5 N	N	L
AK-531-V-210	Ant. Dorsal rib ?	5.4 N	N	L
AK-531-OQ-O1	Part. Pedal ph2,3dIII	4.3 Y?	N	L
AK-531-OQ-O2	Dorsal rib section	4.8 N	N	N
AK-531-OQ-O3	IND bone section	6.5 N	N	L
AK-531-OQ-O4	Post. Caudal centr.	2 N	N	N

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ANALYSIS 2004

N	T	N	Mid-rib section; well preserved	
M-P	T,L,C,S	N	Very punky- crushed/distorted; with 200	
S-M-P	T,L,C	N	Inner & outer condyles present; proximal end punky	383-111
N-S	T,L,C	N	Unfused NB; distal 1/4 of NS + prozygap. Absent	
S	T	N	Well preserved	
M	T,L	N; NOT MAPPED	Highly fragmented metatarsal distal end ?	
S	T	N; NOT MAPPED	Unusually long, thin, & incomplete (3 pieces)	
S	T	N; NOT MAPPED	Narrow, incomplete	
S	T	N	Mid-rib to tubercle; base of head; very young ?	
S	T	N	Lt. half; bite mark or pathologic lesion; see: 383- 111	
N	T,S	N	Mid-rib section, well preserved	
S-M	T,S	N	Unusual bone Fused neural bases; neural arch nubs	
N	T,S	N		

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ANALYSIS 2004

AK-531-OQ-O5	Right partial jugal	10.1 N	N	N
AK-531-OQ-O6	Partial ulna	12.5 N	N	M
AK-531-OQ-O7	Post. Caudal centr.	3.4 N	N	N
AK-531-OQ-O8	Post. Caudal centr.	3.4 N	N	N
AK-531-OQ-O9	Post. Caudal centr.	2 N	N	N
AK-531-OQ-O10	Ant. Dentary sect.	3.7 N	N	N
AK-531-V-01fl	Partial caudal NS	4.2 N	N	L
AK-531-V-02fl	Hadrosaur tooth	1.2 N	N	N
AK-531-V-03fi	IND bone fragment	2.6 N	N	M-H
AK-531-V-04fl	IND bone fragment	1.7 N	N	L
AK-531-V-05fl	1/2 dorsal NA	3.6 N	N	L
AK-531-V-06fl	Part. Metacarpal II	2.5 N	N	L

N-S	T,S	N	Posterior 1/4 absent; orbital process also	
M-H-P	T,L,C,S	N	Highly fragmented; punky, poorly preserved	
N	N	N	Unfused neural bases; excellent preserv.	
N	T	N	Unfused neural bases; more ant. Than 08?	
N	T	N	Neural bases fused; neural arch nubs	
S	T	N	Near anterior end of tooth grooves	
S	T	N	Section from above zygapophs--distal end	
N	T	N	Unfaceted crown, rootless	
M	T	N	Well rounded; low sphericity; allochthonous?	
N-S	T,S	N	Piece of proximal process of caud. Chevron ?	
S	T	N	Anterior vert? of very young juvenile; Unfused NB	dal ?
S	T,L	N	Proximal end ? Split in half	

AK-531-V-07fl	Hadrosaur tooth		1.6 N	N	N
AK-531-V-08fl	Part. Cervical NA		2.2 N	N	L
AK-531-V-09fl	Dorsal rib section		5.3 N	N	L
AK-531-V-10fl	Partial caudal NS		2.9 N	N	L
AK-531-V-11fl	IND bone fragment		1.8 N	N	L
AK-531-V-12fl	Hadrosaur tooth		1.8 N	N	N
AK-531-V-13fl	IND bone fragment		2.3 N	N	L
AK-531-V-14fl	Post. Caud. Centr.		2 N	N	N
AK-531-V-15fl	NO SPECIMEN				
AK-531-V-16fl	Hadrosaur tooth		1.4 N	N	L
AK-531-V-17fl	Post. Caud. Centr.		1.3 N	N	N
AK-532-V-001	IND bone fragment		1.4 N	N	L-M
AK-532-V-002	IND bone fragment		1.5 N	N	L
AK-532-V-003	Partial neural arch	1.6--1.8	N	N	L
AK-532-V-004	Post. Caudal centr.		3.1 N	N	N

S	T	N	Unfaceted crown, part of root
S	T,L	N	Base of right arch; very young juvenile
N-S	T	N	Mid-rib section
S	T,L	N	Distal 1/4 of medial caudal
S-M	T,L	N	
S	T,L	N	Highly faceted/worn crown; partial root
S	T,L,S	N	
N	T	N	Fused neural bases; Neural arch nubs
S	T	N	Most of root, no crown
N	N	N	Fused neural bases; NA nubs; very young juv.
N	T,L	N	Piece of tooth groove of dentary or maxilla
N	T,L	N	Piece of cranial bone ?
S	T,L	N	Unfused bases with NC; Cervical of very young ?
N	N	N	Unfused bases; excellent preservation

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ANALYSIS 2004

AK-532-V-005	Partial caud. Chevr.	3.1 N	N	N-L
AK-532-V-006	OT	1.6 N	N	L
AK-532-V-007	Part. Cervical NA	4 N	N	L
AK-532-V-008	IND bone fragment	1.8 N	N	M
AK-532-V-009	IND bone fragment	2.3 N	N	L
AK-532-V-010	Dorsal rib section	5.4 N	N	L
AK-532-V-011	IND bone fragment	1.7 N	N	L
AK-532-V-012	IND bone fragment	2.7 N	N	L-M
AK-532-V-013	IND bone fragment	0.8 N	N	N-L
AK-532-V-014	IND bone fragment	1.7 N	N	L
AK-532-V-015	Rt. dorsal rib sect.	8.2 N	N	L
AK-532-V-016	Dorsal rib section	2.3 N	N	L
AK-532-V-017	Hadrosaur tooth	1.4 N	N	L
AK-532-V-018	Dorsal rib section	5.3 N	N	L
AK-532-V-019	Dorsal Neural arch 10..0--11.0	N	N	L-M

N-S	T,L	N	Half of proximal articular processes
N	T,L	N	Narrow, incomplete
S	T,L	N	Most of right half of neural arch; unfused base Subrounded; punky;
M-P	T,L	N	allochthonous?
M-P	T,L	N	Angular, punky; transported ?
N-S	T,L	N	Mid-rib section; well preserved
N-S	T,L	N	Piece of cranial bone ?
S	T	N	
N-S	T	N	Tip of distal pole of chevron ?
S	T,L	N	Rib chip ? Proximal section-- tubercle, base of rib head
S	T,L,C	N	To small to locate position
S	T,S	N	
S	T	N	Most of root Mid-rib section; crushed/lat.
M-P	T,L,C	N	Compressed Anterior dorsal; crushed/distorted;
M-P	T,L,C	N	base of NS

AK-532-V-020	Neural base		1.8 N	N	L
AK-532-V-021	Lt. dorsal rib sect.		7.5 N	N	L
AK-532-V-022	Part. Metacarpal IV IND bone		2 N	N	N
AK-532-V-023	fragments	1.6 & 2.0	N	N	L
AK-532-V-024	IND bone fragment		2.3 N	N	L
AK-532-V-025	IND bone fragment		3.2 N	N	L-M
AK-532-V-026	IND bone fragments	1.2,1.8,2.0	N	N	L-M
AK-532-V-027	IND bone fragment		1.8 N	N	N
AK-532-V-028	Left dentary sect.		4.1 N	N	L
AK-532-V-029	Left dentary frag.		4.1 N	N	N
AK-532-V-030	Post. Caudal centr.		2.4 N	N	L
AK-532-V-031	Partial neural base		2.9 N	N	M-H

N-S	T,L	N	Unfused neural base--post. Caudal ?
S	T	N	Mid-rib to tubercle + part of head; young juvenile ?
N-S	T,L	N	Part of proximal end ?
M-P	T,L,C	N	Pieces of rib ? Medial-anterior caudal lateral process ?
S	T	N	
S	T,L	N	Thin bone chip on matrix; subangular
S-M	T,L,C	N	Misc. bone frags. Three origins
N	T,S	N	Piece of bone shaft
N-S	T	N	Anterior end of dentary with foramina + groove
S	T,S	N	Fragment with anterior part of Meckelian groove
N		N	Fused neural bases & NA nubs; margins broken
M-P	T,S	N	Subrounded, punky; allochthonous-- reworked ?

AK-532-V-032	IND bone fragment		2.6 N	N	M
AK-532-V-033	IND bone fragment		2.3 N	N	M-H
AK-532-V-034	IND bone fragment		2.6 N	N	L
AK-532-V-035	Hadrosaur tooth	0.5--1.8	N	N	N
AK-532-V-036	Post. Caudal centr.		2.4 N	N	L
AK-532-V-037	Post. Caudal centr.		3.7 N	N	M-H
AK-532-V-038	IND bone fragment		2.8 N	N	L
AK-532-V-039	Part. Dorsal NA		2.9 N	N	N-L
AK-532-V-040	Post. Caudal centr.		4.2 N	N	M-H
AK-532-V-041	Dorsal rib section		3.2 N	N	L
AK-532-V-042	Right radius		20.4 N	N	L-M
AK-532-V-043	Dorsal rib section		7.2 N	N	L

M-P	T,L	N	Subangular, punky, poorly preserved-- allochthonous? Tip of caudal NS ? allochthonous- reworked ?
M-H	T,L	N	
M-P	T,L	N	
S	T	N	Unfaceted/worn crown + root fragments
N	T	N	Fused NB; bases broken out, pieces of NA present Neural bases unfused; poorly preserved; allochthonous?
S-P	N	N	
S	T,S	N	No diagnostic traits
N	T	N	Left half of neural canal + zygapoph NB unfused; part of #37? Poorly preserved;allochth. ?
S-P	T,result of hand	N	Base of head ? Crushed/compress ed
S-P	T,L,C	N	Proximal 1/3 highly fractured, end compressed
S-P	T,L,C	N	
S-P	T,L	N	Mid--distal section; young juvenile ?

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AK-532-V-044	Partial neural arch	2.5 N	N	L
AK-532-V-045	Hadrosaur tooth	1.1 N	N	N
AK-532-V-046	Manal ph 1, d V, rt.	4.8 N	N	N
AK-532-V-047	Neural arch frag.	2.1 N	N	L
AK-532-V-048	Part. Caudal chevr.	3.7 N	N	N
AK-532-V-049	Rt. pes, ph2-3,d IV	4 N	N	N
AK-532-V-050	Post. Caudal centr.	1.3 N	N	N
AK-532-V-051	Manal ph 1, d III?	2.5 N	N	M
AK-532-V-052	Dorsal rib section	3.1 N	N	L
AK-532-V-053	Rt. pes, ph2-3,d IV	3.1 N	N	N
AK-532-V-054	IND bone section	7.3 N	N	H

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ANALYSIS 2004

S	T,L	N	Unfused N B + rt. side of NC
N	T	N	Unfaceted/worn crown; root absent Most probably an adult; excellent preservation
N	N	N	
N	T,L	N	Dorsal vert. prozygapophysis ? Most of distal post minus tip + base of Y
N	T	N	Well preserved, good detail preserved Neural bases fused, NA nubs; very young indiv.
N	T	N	
S	N	N	Margins highly modified--position questioned Distal end ? Slightly compressed
S-P	T,C	N	
N	T	N	Excellent preservation; break due to handling Well rounded, highly modified; transported- reworked
H-P	T,L	N	

AK-532-V-055	Part. Ant.dorsal rib	6.8 N	N	L
AK-532-V-056	IND bone fragment	3.3 N	N	L
AK-532-V-057	Troodon formosus	0.7 N	N	N
AK-532-V-058	Quadratojugal frag.	3.1 N	N	N
AK-532-V-059	Pterygoid frag. ?	3.1 N	N	N
AK-532-V-060	Part. Ant. Dors. NA	10.5 N	N	L
AK-532-V-061	IND bone fragment	1.7 N	N	L
AK-532-V-062	Caudal chevr. Sect.	2.2 N	N	N
AK-532-V-063	Post. Caudal centr.	2.6 N	N	N
AK-532-V-064	Part. Zygapophysis	1.5 N	N	N-L
AK-532-V-065	IND bone fragment	2.7 N	N	M-H
AK-532-V-066	Sect. of caud.chev	1.4 N	N	N-L
AK-532-V-067	Part. Cervical NA	2.5--4.5 N	N	L

S	T,S	N	Could be post. Dorsal or very young juvenile dors.
N	T,S	N	cranial bone chip-- thin
N	T	N	Unfaceted crown; excellent preservation
N	T,L	N	Near posterior articular ridge
N	T,L	N	Piece near central plate ?
S-P	T,L,C,S	N	Prozygapophs. & NS absent; NB unfused
S	T,L	N	
N-S	T	N	Mid-section of distal post
N	T	N	Neural bases fused, NA nubs; very young indiv.
N-S	T	N	Dorsal vert. prozygapophysis ?
M-P	T,L	N	Well rounded, highly modified; allochthonous- reworked
N-S	T	N	Piece of proximal chevron process
S	T,L,C	N	Prozygapophysis + partial NC present

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ANALYSIS 2004

AK-532-V-068	Dorsal rib section?	4.9 N	N	N
AK-532-V-069	Partial parietal ?	5.7 N	N	L
AK-532-V-070	IND bone fragment	2.8 N	N	H
AK-532-V-071	Dorsal rib section	3.4 N	N	L
AK-532-V-072	Part. Left quadrate	7.8	N	L-M
AK-532-V-073	Ph 2, digit II, rt. pes	3.8 N	N	L
AK-532-V-074	Medial caudal centr	3.6 N	N	L
AK-532-V-075	Caudal neural spine	6 N	N	L
AK-532-V-076	Ph1,d V, left manus	2.3 N	N	N
AK-532-V-077	Part. Caudal chevr.	2.4 N	N	L
AK-532-V-078	Caudal NS-Zygapoph	2.3 N	N	L

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N	T,L	N	Distal section of very young individual ?
S-M-P	T,L,C	N	Highly crushed/compress ed laterally
M	T,L	N	Well rounded, subspherical- allochthonous, reworked
S-P	T,L,C	N	Highly fractured, punky in center; mid-rib section
M, preburial	T,L	N	Ventral end of quadrate; unusual preservation
S	T	N	Margins beat-up; not as well preserved as usual
N-S	N	N	Neural and lateral bases unfused; well preserved
S-P	T,S	N	Distal tip--near base; upper post. Position.
N	N	N	Excellent preservation & detail
S	T	N	Left half of proximal processes
N	T,S	N	Postzygapophysis + part of neural spine

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AK-532-V-079	Part. Neural arch		2.5 N	N	L
AK-532-V-080	Hadrosaur teeth	2.6 & 3.7	N	N	L
AK-532-V-081	Part. Lt. postorbital		4.6 N	N	L
AK-532-V-082	Dorsal rib section		3.2 N	N	L
AK-532-V-083	Post. Caudal centr.		1.6 N	N	N
AK-532-V-084	Part. Coronoid proc.		4 N	N	L
AK-532-V-085	Dorsal rib sections	2.8--5.6	N	N	L-M
AK-532-V-086	Partial dorsal NS		4.8 N	N	L
AK-532-V-087	Partial lft. Maxilla		12.2 N	N	N-L
AK-532-V-088	Right humerus		23 N	N?	N-L
AK-532-V-089	Part. Caud. Centrum		3.7 N	N	M-H
AK-532-V-090	Post. Caudal centr.		2.3 N	N	N-L

S	T	N	Unfused neural base--post. Caudal ?
S	T	N	Highly faceted/worn tooth w/ both roots
N	T,L	N	Posterior end; well preserved
N	T,L	N	Small section near base of head- proximal
N	T	N	Neural bases fused, NA nubs; very young indiv.
S	T,L	N	Tip of the process--- RIGHT DENTARY
S-M-P	T,L,C,S	N	3 pieces of mid-rib to base of head; crushed
S	T,L	N	Anterior dorsal; distal margin absent
S	T,L,C	N	Ant. & post. ends absent, some teeth present
N-S	T,L,C	N	Proximal end & adjacent corpus crushed-fractured
S	T,L	N	Dorsal 1/3, neural bases unfused; subrounded- diagenetic?
N-S	N	N	Fused partial neural arch; well preserved

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AK-532-V-091	Indet. cranial frag.	3.2 N	N	N-L
AK-532-V-092	Indet. bone frag.	3 N	N	L
AK-532-V-093	Hadrosaur tooth	1.3 N	N	L
AK-532-V-094	Left rib section	3.9 N	N	N
AK-532-V-095	Post. Caudal centr.	1.2 N	N	N
AK-532-V-096	Part. Ant. Dors. NA 2.3--6.7	N	N	L
AK-532-V-097	Neural arch frag.	2 N	N	L
AK-532-V-098	Iron oxide concret. 2.6 largest			
AK-532-V-099	Dorsal rib fragment	3.1 N	N	N
AK-532-V-100	Part. Lft. Dorsal rib	17.2 N	N?	N
AK-532-V-101	Part. Rt. astragalus	4.5 N	N	N-L
AK-532-V-102	Post. Caudal centr.	1.7 N	N	N
AK-532-V-103	Ind. Bone fragment	3.8 N	N	L-M
AK-532-V-104	Dorsal rib section	4.5 N	N	L
AK-532-V-105	MATRIX-misident.			
AK-532-V-106	MATRIX-misident.			
AK-532-V-107	Part. Caudal chevr.	8.5 N	N	L

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ANALYSIS 2004

N-S	T,L	N	None hadrosaur; possibly theropod
S-M	T,L	N	Poorly preserved, transported?
S	T	N	Highly worn crown & partial root
N-S	T	N	Proximal near base of head
N	N	N	Partial neural arch-- fused; young juvenile?
S	T,L,C	N	Most of neural arch, NS absent; bases unfused
S	T,L	N	
			Possible coprolite
N	T,L	N	Near base of head-- proximal
S	T,L,C	N	Head & distal end absent; highly crushed in part
N-S	T,L	N	Posterior-interior quadrant
N	N	N	Part. Neural arch-- fused; see #95
M-P	T,L	N	Piece of rib? Poorly preserved-- transported?
S	T,L	N	Distal portion
S	T,L,C	N	One prox. Articular head & distal tip absent

AK-532-V-108	Part. Mid-caud.cent		4.8 N	N	M-H
AK-532-V-109	Indet. bone frag.	1.2 - 1.6	N	N	N-L
AK-532-V-110	Part. Caudal chevr.		3.2 N	N	N-L
AK-532-V-111	Indet. bone frag.		2.1 N	N	L
AK-532-V-112	Pes ? Ungual		3.1 N	N	N
AK-532-V-113	Indet. bone frag.		1.5 N	N	N
AK-532-V-114	Indet. bone frag.		2 N	N	N-L
AK-532-V-115	Hadrosaur tooth		1.3 N	N	N-L
AK-532-V-116	Part. NA & lat. Proc.		5.4 N	N	L
AK-532-V-117	Neural arch frag.		1.7 N	N	L
AK-532-V-118	Indet. bone frag.		14.8 N	N	L
AK-532-V-119	Post. Caudal centr.		1.5 N	N	N-L
AK-532-V-120	Pedal ph2-3 d III		5 N	N	L
AK-532-V-121	Pebble		1.8		
AK-532-V-122	Dorsal rib section		7 N	N	N-L
AK-532-V-123	Part. Caudal chevr. 3.6 largest		N	N	L

M-H	T,L	N	Dorsal half; allochthonous? Poorly preserved
S	T,L	N	Neural arch fragments ?
S	T	N	Distal process or pole
S	T,L	N	
N-S	N	N	Excellent preservation & detail
S	T,L	N	Piece of a neural arch ? Well preserved
S-M	T,L	N	Poorly preserved, transported?
S	T	N	Unfaceted crown
S	T,L,C	N	Highly fractured Poorly preserved,
S-M	T,L	N	transported?
S	T,L,C	N	Partial ilium ?
N	N	N	Partial neural arch-- fused; see #102
S	T,L	N	Ventral lateral 1/4 fragmented, partial Iron oxide clast, well-rounded, reworking?
S	T,S	N	Distal portion of right? Rib
S-M,P	T,C	N	Distal process/pole poorly preserved, crushed

AK-532-V-124	Part. Neural arch		1.6 N	N	L
AK-532-V-125	Part. Dorsal rib	12.3 +	N	N	L
AK-532-V-126	Part. Metatarsal III		16 N	N	L
AK-532-V-127	Part. Metatarsal III?		10.6 N	N	L
AK-532-V-128	Lft? Metacarpal III		10.2 N	N	L
AK-532-V-129	Dorsal rib section		5.2 N	N	N
AK-532-V-130	Ischium ?		33		
AK-532-V-131	Hadrosaur tooth		1.4 N	N	N
AK-532-V-132	Pedal ph2-3 d III		4.5 N	N	M-H
AK-532-V-133	Dorsal rib section		7.2 N	N	L
AK-532-V-134	Humerus ? Section		11.1 N	N	L-M
AK-532-V-135	Partial right pubis		22 N?	N?	L
AK-532-V-136	Dorsal vert. frag.?		2.1 N	N	L

S	T	N	Unfused base-- small dorsal vert. ?
S	T	N	Most of a rt.anterior dorsal rib; young juvenile?
M-H,P	T,L,C	N	Most of shaft and proximal end highly crushed
S-M-P	T,LS	N	Proximal half, partial or absent
S	T,L	N	Almost complete-- part of proximal margin absent
S	T,L	N	Mid to distal portion; well preserved
S	T	N	Included in large jacket with 138 & 139 ?
S	T	N	Partial unfaceted crown
S-M	T	N	Poorly preserved, allochthonous?
S-P	T,L,C	N	Mid-rib; highly fractured & crushed in part
M-P	T,L,C	N	Possible distal part; very punky- poor preservation
M-P	T,LC	N	Ant. 1/2 of blade absent; post.1/2 of postpubis absent
S	T,L	N	Possible lateral process piece

AK-532-V-137	Rt. metatarsal III		16.5	N	L
AK-532-V-138	Quadrate		16.3		
AK-532-V-139	Indet. Bone frags.				
AK-532-V-140	Partial dorsal rib		17	N	L-M
AK-532-V-141	Left quadratojugal		5.3	N	N-L
AK-532-V-142	Part. Ant. Dorsal sp.		4	N	L
AK-532-V-143	Dorsal rib section		4.5	N	L
AK-532-V-144	NUMBERING ERROR				
AK-532-V-145	Medial caudal centr		3.6	N	L
AK-532-V-146	Ant. Caudal centr.		3	N	N
AK-532-V-147	Part. NA& NS?	2.6 & 4.0	N	N	N-L
AK-532-V-148	Part. Caudal chevr.	2.3 & 4.7	N	N	L
AK-532-V-149	Dorsal rib section	2.0 & 9.0	N	N	L
AK-532-V-150	Caudal chevr. Sect.		2.3	N	N-L

M-P	T,L,S,C	N	Shaft crushed, ends fractured & displaced; poor pres. IN LARGE JACKET IN LARGE JACKET
S-M-P	T,L,S	N	Mid to distal portion; poorly preserved, crushed
S	T	N	Most of anterior margin absent
S	T,S	N	Distal half present Mid-rib; split longitud., poorly preserved; with matrix
S-M-P	T,C,S	N	
S	N	N	Neural bases unfused; poorly preserved; transp.? Neural bases unfused; well preserved
N-S	N	N	
S-M-P	T,L,C	N	
M-P	T,L,C	N	Proximal portion; crushed-flattened
M-P	T,L,C	N	Mid-rib to distal portion; moderately well-preserved
N-S	T	N	Right proximal articular process & head

AK-532-V-151	Ant.?caudal centr.		5.2 N	N	L
AK-532-V-152	Metacarpal div Rt.		9.6 N	N	N-L
AK-532-V-153	Part. Rt. dorsal rib		14.2 N	N	L
AK-532-V-154	Part. Rt. dorsal rib	5.0 & 14.0	N	N	L
AK-532-V-155	OT		2 N	N	L
AK-532-V-156	Partial rt. dorsal rib		10.5 N	N	N-L
AK-532-V-157	Part. Lf.? Fibula		23.5 N	N	N-L
AK-532-V-158	Caudal chevr. Sect.		3 N	N	L
AK-532-V-159	Hadrosaur tooth		2.6 N	N	N
AK-532-V-160	Right tibia		36.5 N	N	N
AK-532-V-161	Part. Rt. dorsal rib		15 N	N	L
AK-532-V-162	Dorsal rib section		8.2 N	N	L
AK-532-V-163	Dorsal rib section	3.0 & 9.3	N	N	L

M-P	T,L,C	N	Only 1/3 present; very punky & poorly preserved
N-S	T	N	Well preserved, good detail
S	T,S	N	Base of head to distal 2/3rds, well preserved
S-M-P	T,L,S,C	N	Head & distal end absent; highly crushed in part
S	T	N	Wide & incomplete Mid-rib to distal 2/3rds portion; well preserved
N	T,S	N	Distal 1/3 & lateral proximal margins absent
S-M-P	T,S,C	N	Right proximal articular process & head
S	T,S	N	Unfaceted crown & partial root
N	T	N	Proximal 1/3 crushed & highly fractured-punky
S-M-P	T,L,C,S	N	2/3rds of rib from head through mid- rib; highly fract.
S-M-P	T,L,C	N	Mid rib portion; poorly preserved
S-M-P	T,L,C	N	Mid-rib portion; very poorly preserved-- crushed
M-H-P	T,L,C	N	

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AK-532-V-164	Caudal chevr. Frag.		1.8 N	N	N
AK-532-V-165	Post. Caudal centr.		2.8 N	N	N
AK-532-V-166	Partial left jugal		6 N	N	N-L
AK-532-V-167	Part. Dorsal NA	5.5 largest	N	N	L
AK-532-V-168	Pedal ph2-3 d III		4.2 N	N	N
AK-532-V-169	Distal end, lft. Tibia		14.5 N	N	N-L
AK-532-V-170	Part. Dorsal rib	2.0 - 6.0	N	N	L
AK-532-V-171	Part. Left rib		16 N	N	N-L
AK-532-V-172	Part. NA of cervical		2.7 N	N	N-L
AK-532-V-173	Distal end, lft. Tibia	16+	N	N	L
AK-532-V-174	Dorsal rib fragment		4.8 N	N	N-L
AK-532-V-175	Part. Left dorsal rib		16 N	N	L

N-S	S	N	lower 1/3 of distal process or pole
N	N	N	Neural bases fused, one NA nub, excellent preserv.
N-S	T	N	Part of anterior portion; well preserved
S	T,L,S	N	Ant. Dorsal; most of NA, NS, & lateral process
N	T	N	Excellent preservation & detail
S-M-P	T,S,C	N	Shaft poorly preserved--punky highly fractured
S-M-P	T,L,S,C	N	Highly fragmented; base of head through mid-rib
S	T,L,S	N	Fairly complete from Head through distal 1/3
S	T,S	N	Right side of cervical neural arch; base unfused
S-M-P	T,S,L	N	Shaft poorly preserved--punky; only 1/2 extracted
N-S	T	N	Near base of head-proximal
S	T,L,C,S	N	End of head and distal 1/2 absent

AK-532-V-176	Part. Right fibula	6.9 & 8.7	N	N	L-M
AK-532-V-177	NUMBERING ERROR				
AK-532-V-178	Part. Right tibia		37 N	N	M
AK-532-V-179	Part. Rt. surangular		6.4 Y?	N	N-L
AK-532-V-180	Part. Ant. Dors.rib		5.4 N	N	N
AK-532-V-181	Medial caudal centr		5.3 N	N	L-M
AK-532-V-182	Dorsal rib section		8 N	N	N-L
AK-532-V-183	Dors. Lft. Rib sect.		4.7 N	N	L
AK-532-V-184	Right dors. Rib sect		8.5 N	N	N-L
AK-532-V-185	Rt. dentary frag.		4.4 N	N	N
AK-532-V-186	Neural base of NA		2.6 N	N	L
AK-532-V-OQ1	Centrum fragment		2.6 N	N	L-M

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S-M-P	T,S,L	N	Distal end & mid-shaft; fairly well preserved
S-M-P	T,L,C	N	Shaft & proximal half very punky-crushed
N-S	T,S	N	Anterior-medial part; bite groove ? On dorsal margin
N-S	T,S	N	Proximal end, part of head & tubercle absent
M-H-P	T,L,C	N	Very poorly preserved; set in matrix
S	T,S	N	Mid-rib break and repair--pathological specimen
S-M-P	T,S	N	Portion just below head of left dorsal head
S-M-P	T,C	N	Portion below head to mid-rib
N-S	T,S	N	Possible piece of rt. dentary, near Meckelian groove
S	T	N	Right side of NC & unfused neural base
S-M-P	T,C	N	Poorly preserved; diagenetic?

AK-532-V-OQ2	Medial caudal centr.		5.5 N	N	L-M
AK-532-V-OQ3	Post. Caudal centr.		3.5 N	N	L
AK-532-V-OQ4	Left ulna section		11.3 N	N	L
AK-532-V-OQ5	Tyrannosaurid tooth		4.3 N	N	N
AK-532-V-OQ6	Dent/max. frags.	4.0 largest	N	N	?
AK-532-V-fl01	Post. Dorsal rib sec		3.3 N	N	L
AK-532-V-fl02	Post. Dorsal rib piece		1.9 N	N	N
AK-532-V-fl03	Post. Dorsal rib piece		1.5 N	N	N
AK-532-V-fl04	Indet. bone frag.		2.9 N	N	L
AK-532-V-fl05	Indet. bone frag.		1.9 N	N	L
AK-532-V-fl06	Part. Neural arch		2.9 N	N	N-L
AK-532-V-fl07	Cervical zygapoph.		3.4 N	N	L
AK-532-V-fl08	Pedal ph. 1d II-lft?		4.2 N	N	L
AK-532-V-fl09	MATRIX				
AK-532-V-fl10	Indet. bone frag.		3.2 N	N	L
AK-532-V-fl11	Part. Lft. Postorbital		4 N	N	N
AK532-V-fl12	Hadrosaur tooth		1.3 N	N	N
AK-532-V-fl13	Post. Caudal centr.		1.2 N	N	N

M-P	T,L	N	Unfused neural bases; poor preservation, transp.?		
S-M-P	T	N	Unfused neural bases	ion see fl02 & 03	
S-M-P	T	N	Distal 1/3	ion see fl01	& 03
N-S	T,L	N	Most of crown; anterior apical wear	ion, see fl01,02	
?	?	N	Mostly molds in matrix, some bone		
S	T,S	N	Mid-rib portion		
N-S	T	N	Mid-rib portion		
S	T,L	N	Mid-rib portion		
S	T,L	N			
S	T,L	N			
N	T,L	N	Zygapophysis and side of neural canal		
S	T	N	Prozygapophysis		
S	T,L	N	Inner margin absent		
N	T,L	N	Possible cranial fragment		
N-S	T,L	N	Mid corpus to base of posterior process		
N	T	N	Unfaceted crown		
N	N	N	Neural bases fused; NA nubs; excellent preservation		

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AK-532-V-fl14	Hadrosaur tooth		1.4 N	N	N
AK-532-V-fl15	Neural arch base		1.7 N	N	L
AK-532-V-fl16	Neural arch base		1.8 N	N	L
AK-532-V-fl17	Caudal NS tip		1.6 N	N	N
AK-532-V-fl18	Indet. bone frag.		1.5 N	N	L
AK-532-V-fl19	Indet. bone frag.		2.4 N	N	N-L
AK-532-V-fl20	Indet. bone frags.		1.7 N	N	N
AK-532-V-fl21	Dentary/max. frags	1.7 & 1.9	N	N	N
AK-532-V-fl22	CLAST, NOT BONE		1.7		
AK-532-V-fl23	Ant. Dors. Rib frags	1.3--1.5	N	N	N
AK-532-V-fl24	Idet. Bone frag.		2 N	N	L
AK-532-V-fl25	Cerv. Prozygapoph		3.4 N	N	N-L
AK-532-V-fl26	Caudal NS base +	1.9--3.5	N	N	N-L
AK-532-V-fl27	Indet. bone frag.		1.8 N	N	H
AK-532-V-fl28	Caud. Chevron frag		1.8 N	N	N
AK-532-V-fl29	Hadrosaur tooth		1.2 N	N	N

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N-S	N	N	An obliquely faceted crown
N-S	T,S	N	Unfused base & part of neural canal
N-S	T,S	N	Unfused base & part of neural canal. see f1015
N	T	N	
S	T,L	N	Angular
S	T,L	N	Piece of trabecular bone, no cortical; solid
S	T,L	N	Angular; fairly well preserved
S-M	T,L	N	Angular; fairly well preserved
			Rounded-subangular; pebble-allochthonous
S	T,L,S,C	N	Mid-rib portion
S	T,L,S,C	N	Angular; fairly well preserved
S	T	N	
S,M,P	T,L,S	N	Postzygapophyses and NS base + NA?
S-M	T,L	N	Highly rounded, reworked, allochthonous?
N	T	N	Piece of distal pole/process
N	T	N	Unfaceted crown

AK-532-V-f130	<i>Troodon formosus</i>		1.1 N	N	N
AK-532-V-f131	Dorsal rib section		3.8 N	N	L
AK-532-V-f132	Indet. bone frag.		3.1 N	N	N-L
AK-532-V-f133	Hadrosaur tooth		1.5 N	N	N
AK-532-V-f134	<i>Part. Lft. Surangular</i>		3.2 N	N	N-L
AK-532-V-f135	<i>Left surangular frag</i>		2.3 N	N	N
AK-532-V-f136	<i>Indet. cranial frag.</i>		1.8 N	N	N
AK-532-V-f137	Caud. Chevron frag		2.9 N	N	N
AK-532-V-f138	Indet. bone frag.		3.5 N	N	N
AK-532-V-f139	Part of radius?		4.9 N	N	L
AK-532-V-f140	<i>Basioccipital</i>		3.8 N	N	N-L
AK-533-V-001	Dorsal rib section ?		6.7		
AK-533-V-002	<i>MATRIX</i>				
AK-533-V-003	OT pieces	0.6 & 0.7	N	N	L
AK-533-V-004	<i>MATRIX</i>				
AK-533-V-005	<i>Troodon formosus</i>		1.3 N	N	N-L

N	T	N	Slight apical-lingual facet; excellent preservation
M-P	T,L	N	Mid-rib portion
S	T	N	
NN	T	N	Unfaceted, but malformed apex; two sub keels?
N-S	T,L	N	Part of posterior process
N	T	N	Piece of corpus near mid-element
N	T,L	N	
N	T	N	Mid-corpus, minus proximal processes & most of "pole"
S	T,L,	N	Possibly mid-shaft piece from radius
S-M-P	T,L,C	N	Distal end of radius
N-S	N	N	Exceptional preservation and detail---best so far
			RNS
S	T	N	Narrow and incomplete
N	T	N	Well developed lingual facet--mesial tooth

AK-533-V-006	Post. Caudal centr.		1.8 N	N	L
AK-533-V-007	Caudal ? Centrum		5 N	N	L
AK-533-V-008	Indet. bone frags.	1.2--1.3	N	N	L
AK-533-V-009	Indet. bone frag.		3.4 N	N	L-M
AK-533-V-010	Lft. Post. Dorsal rib		13.5 N	N	L
AK-533-V-011	Mid-caudal centrum		4.8 N	N	L
AK-533-V-012	OT		2.3 N	N	N
AK-533-V-013	OT		1.8 N	N	N
AK-533-V-014	OT		2.2 N	N	N
AK-533-V-015	Dorsal rib sections	4.2 & 7.2	N	N?	L
AK-533-V-016	Dorsal rib section		5.6 N	N	L
AK-533-V-017	Ant. Caudal centr.		4.3 N	N	M
AK-533-V-018	Indet. bone frags.	1.0 & 2.7	N	N	L
AK-533-V-019	Indet. bone frag.		1.9 N	N	L
AK-533-V-020	Neural base		1.8 N	N	L
AK-533-V-021	OT pieces		4.8 N	N	N
AK-533-V-022	Indet. bone frag.		2.9 N	N	L

N	N	N	Neural bases fused; NA nubs; very young individual
S-M	T	N	Crushed & plastically deformed
S	T,L	N	Pieces of a caudal chevron ?
M-P	T,L	N	Poorly preserved
S	T	N	Could be a very young juvenile
M-P	T	N	Lower-medial; deformed dorso- ventrally; NB unfused
N	T	N	Wide; incomplete
N	T	N	Wide; incomplete
N	T	N	Wide; incomplete Flattened ant- postiorly, crushed; poorly
M-P	T,L,C,S	N	preserved;mid-rib Mid-rib portion;
M-P	T,L	N	poorly preserved
M-P	T,C	N	Deformed laterally; punky in center
S	T,C	N	Bone chips
S	T,S	N	Part of caudal chevron ?
S	T	N	Unfused NB
N	T	N	Narrow and incomplete
S	T,L	N	Long angular bone sliver

AK-533-V-023	Hadrosaur tooth		1 N	N	L
AK-533-V-024	Bone ?				
AK-533-V-025	Dorsal rib fragment		1.1 N	N	L
AK-533-V-026	OT		1.2 N	N	N
AK-533-V-027	Troodon formosus Caudal neural		1.4 N	N	N
AK-533-V-028	spine		7.1 N	N	L
AK-533-V-029	Ph1,d II, left manus		3.5 N	N	L
AK-533-V-030	Indet. bone frag.		2.1 N	N	L
AK-533-V-031	Maxill/dentary frags	1.8 --4.4	N	N	L
AK-533-V-032	Hadrosaur tooth		0.7 N	N	L
AK-533-V-033	Partial dorsal rib		5 N	N	L
AK-533-V-034	Part. Neural spine		4.4 N	N	L
AK-533-V-035	Indet. bone frag.		1.5 N	N	L
AK-533-V-036	Indet. bone frag.		0.8 N	N	L
AK-533-V-037	Ph1, d V rt.manus		1.3 N	N	N
AK-533-V-038	Part. Caud. Chevr.		10 N	N	L

S	T,L	N	Unfaceted crown; enamel missing on lingual side	
			May be a root cast	
M-P	T	N	Piece of mid-rib?	
N	T	N	Narrow and incomplete	
N	T	N	Well developed lingual facet-- mesial tooth	
S	T,S	N	Highly fractured, in matrix	
S	T	N	Well preserved, good detail	
S	T,L,S	N		
S-M-P	T,L,S	N	Poorly preserved	
M	T	N	Highly faceted crown + partial root; reworked?	
S	T	N	Post. Dorsal; mid- rib to mid-head; tubercle present	
S	T	N	Distal half of anterior dorsal vertebra	
S	T,L	N	Subrounded to subangular	rved; piece of periphery
M-P	T	N	Angular & poorly preserved	
N	N	N	Excellent preservation	
S-M	T	N	One prox. Proc. Absent; distal pole crushed, distorted	

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AK-533-V-039	OT		1.6 N	N	L
AK-533-V-040	Caud. Centrum frag		2.1 N	N	L
AK-533-V-041	Indet. bone frag.		1 N	N	M-H
AK-533-V-042	Indet. bone frag.		2.5 N	N	L
AK-533-V-043	OT		2.5 N	N	L
AK-533-V-044	Indet. bone frag.		3.2 N	N	L
AK-533-V-045	Indet. bone frag.		1.5 N	N	L
AK-533-V-046	Indet. bone frag.		1.5 N	N	L
AK-533-V-047	Partial dorsal rib		5.6 N	N?	L
AK-533-V-048	Indet. bone frag.	1.5 & 2.7	N	N	M
AK-533-V-049	Hadrosaur tooth		2 N	N	L
AK-533-V-050	Indet. bone frag.		1 N	N	M
AK-533-V-051	Ant. Caudal centr.		1.5 N	N	L
AK-533-V-052	OT		1.3 N	N	L

S	T	N	Narrow and incomplete
S-M	T,L	N	Angular & poorly preserved
M	T,L	N	Well-rounded & subspherical; allochthonous-reworked
S-M	T,L	N	Piece of a maxilla or dentary ?
N	T	N	Wide; incomplete
S	T,S	N	Angular & moderately well preserved
?	T,L	N	Thin angular piece of cortical bone
S	T,L,S	N	Piece of caudal chevron pole ?
M-P	T,L,C,S	N	Highly crushed partial head of rib
M-P	T,L	N	Angular & poorly preserved
M	T,L	N	Part.crown, enamel face only; faceted? Poor preserv.
M-P	T,L	N	Well-rounded & subspherical; allochthonous-reworked
S	N	N	Could be a very young juvenile; fused NB
N	T	N	Narrow and incomplete

AK-533-V-053	Pedal ph2-3,d IV,rt.		4 N	N	N
AK-533-V-054	MATRIX				
AK-533-V-055	Indet. bone frag.		1.2 N	N	L
AK-533-V-056	Indet. bone frag.		2.4 N	N	L-M
AK-533-V-057	OT		3 N	N	L
AK-533-V-058	Pedal ph 1, d IV, rt.		4.8 N	N	L
AK-533-V-059	Medial caud. Centr.		4.5 N	N	L-M
AK-533-V-060	Part. Cervical NA	4.5 & 5.2	N	N	L
AK-533-V-061	Post. Dors. Rib sect.		3.2 N	N	L
AK-533-V-062	Indet. bone frag.		1.6 N	N	L
AK-533-V-063	Pedal ph2, d II, rt.		7.1 N	N	L
AK-533-V-064	OT		5.2 N	N	L
AK-533-V-065	Part of caud. Chevr		1.5 N	N	L

S	T,L,C	N	Compressional radial fractures; relat. Well preserved
M	T,L	N	Angular, poorly preserved
M	T,L	N	Subrounded to subangular
N-S	T,L	N	Narrow and incomplete
S	T	N	Plastically distorted laterally; distal art. End displaced
S-M	N	N	Upper post. Caudal to lower medial caudal;unfused
S-M	T,L,C	N	Unfused NB & prozygapophysis
S	T	N	Mid-rib to upper distal portion; well preserved
S	T,L	N	Angular & fairly well preserved
S	T,L	N	Lateral plastic distortion & some fracture dislocation
N	T,L	N	Narrow to wide,unusually long, incomplete
N	T,S	N	Right proximal articular head

AK-533-V-066	Troodon formosus		1.3 N	N	N
AK-533-V-067	Dorsal rib section		10 N?	N	N
AK-533-V-068	Caudal centrum		4 N	N	L
AK-533-V-069	Indet. bone frags.	1.5--1.8	N	N	L
AK-533-V-070	OT		5.5 N	N	L
AK-533-V-071	Post. Caudal centr.		2.9 N	N	N
AK-533-V-072	OT		5 N	N	L
AK-533-V-073	End metacarpal IV		2.6 N	N	L
AK-533-V-074	Section of scapula		5.8 N	N	L
AK-533-V-075	Hadrosaur tooth		1.5 N	N	L
AK-533-V-076	Rt. dentary frag.		3.6 N	N	N
AK-533-V-077	Partial caudal centr		5.5 N	N	L

N	T	N	Highly faceted, lingual side--mesial tooth, excel. Preser
S-M-P	T,L,S,C	N	Base of head through mid-rib; highly fract.- crushed
M-P	T,L,C	N	Crushed & collapsed dorso- ventrally; poor preserv.
M-P	T,L,C	N	Possible dorsal rib fragments--highly crushed
S	T	N	Narrow & unusually long, incomplete
N	N	N	Neural bases unfused; excellent preservation
N	T	N	Narrow, unusually long; incomplete
N	T	N	Proximal end of metacarpal, left manus
S	T,L	N	Piece of blade margin
N	T	N	Moderately faceted crown + part of root
S	T,L	N	Part of posterior ventral margin ?
M-P	T,L	N	Unfused bases & LP; upper poster. Or lower medial

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AK-533-V-078	OT		3.5 N	N	L
AK-533-V-079	Post. Caudal centr.		2.4 N	N	N
AK-533-V-080	Dorsal vert. frags	1.6 & 2.5	N	N	N
AK-533-V-081	Right calcaneum		4.2 N	N	L
AK-533-V-082	Partial lft. Lacrimal		3.4 N	N	L
AK-533-V-083	Partial caudal NS		4.4 N	N	N
AK-533-V-084	Partial left rib		10.5 Y	N	N
AK-533-V-085	OT		2.9 N	N	L
AK-533-V-086	Indet. bone frag.		2 N	N	L
AK-533-V-087	Post. Dors. Rib sect.		6.1 N	N	N
AK-533-V-088	Dorsal rib sections	3.7 & 4.9	N	N	N
AK-533-V-089	Indet. bone frags.	1.0 & 2.3	N	N	L
AK-533-V-090	Metacarpal IV, lft		8.8 N	N	L
AK-533-V-091	Indet. bone frags.	1.5 & 1.8	N	N	N

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N	T	N	Narrow & incomplete
N	N	N	Neural bases fused; NA nubs
N	T,L	N	Unfused neural base & part.
S	N	N	Lateral process Well preserved, good detail
N	T,L	N	Main part of body of element; well preserved
N	T	N	Distal 2/3rds of Neural spine
N	T,L,C,S	N	Head & base; bite mark & associated fracture
N	T,L	N	Medium width, incomplete
S	T,S	N	Angular elongate chip; poor preservation
S	T	N	Mid-distal section; distal end flattened
N	T	N	Mid-rib sections; well preserved
S	T,L	N	Angular bone chips; poorly preserved
S	T,S	N	Proximal end absent; well preserved
S	T,S	N	Angular bone chips; mod. Well preserved

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ANALYSIS 2004

AK-533-V-092	OT	3.5 N	N	N
AK-533-V-093	Neural arch sect.	2.6 N	N	N
AK-533-V-094	OT	1.2 N	N	N
AK-533-V-095	Part. Cervical NA	2.5 N	N	L
AK-533-V-096	Caudal centrum	4.3 N	N	L
AK-533-V-097	Zygapophysis	1.6 N	N	L
AK-533-V-098	Hadrosaur tooth	1.2 N	N	N
AK-533-V-099	Indet. bone frag.	1 N	N	L
AK-533-V-100	MATRIX			
AK-533-V-101	Neural base	1 N	N	L
AK-533-V-102	Indet. bone frag.	2.1 N	N	L
AK-533-V-103	Indet. bone frag.	3.2 N	N	L
AK-533-V-104	Post. Caudal centr.	2.2 N	N	N
AK-533-V-105	Indet. bone frag.	1.3 N	N	L

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ANALYSIS 2004

S	T	N	Moderate width, incomplete Possible lateral process--post.	
N	T	N	Dorsal vert.	wn
N	T	N	Moderately wide; incomplete	ular; alochthonous- reworked?
N	T	N	Right unfused neural base & part. Neural canal	
S	N	N	Upper post. Caudal to lower medial caudal;unfused	
S	T,L	N		
N	T	N	Moderately faceted crown + part of root	
S	T,L	N	Subrounded to subangular	
N	T	N	Unfused neural base & neural canal wall	
S	T,L	N	Possible cranial element; poor preservation	
S	T,L	N	Angular and poorly preserved	
N	N	N	Unfused neural bases; excellent preservation	
S	T,S	N	Angular, poorly preserved	

AK-533-V-106	Indet. bone frag.	2.3 N	N	L
AK-533-V-107 AK-533-V-108	Neural base MATRIX	1.5 N	N	N
AK-533-V-109	Indet. bone frag.	2.9 N	N	L
AK-533-V-110	MATRIX			
AK-533-V-111	Maxill/dentary frag.	1.7 N	N	L
AK-533-V-112	Hadrosaur tooth	0.9 N	N	N
AK-533-V-113	OT	2.7 N	N	L
AK-533-V-114	OT	7.8 N	N	L
AK-533-V-115	Part. Caud. Chevr.	6.4 N	N	L
AK-533-V-116	Part. Cervical NA	4.7 N	N	L
AK-533-V-117	Partial right tibia	37 N	N	L
AK-533-V-118	Part. Dorsal NA	2.8 & 6.0	N	L

N-S	T,L	N	Angular bone sliver, somewhat modified NB and wall of neural canal--- cervical ? Young individ
N	T	N	
S	T,L	N	Angular "chip"; weathered & degraded on underside Hard and does include scattered bone fragments Angular bone chip, tooth rows; poor preservation
S	T,L	N	Partial unfaceted crown
N	T,L	N	Moderately wide; incomplete
N	T	N	Narrow & unusually long, incomplete
N	T	N	Tip of distal pole absent; highly fractured in part
S	T,S	N	
N	T	N	Lft. Side of neural arch--unfused base + zygapoph.
S-M-P	T,L,C	N	Proximal 1/3 punky & highly crushed Left unfused NB, prozygapoph. & lateral process
S	T,L,C	N	

AK-533-V-119	Dromaeosaur tooth	5.9 N	N	N
AK-533-V-120	Indet. bone frag.	1.4 N	N	L
AK-533-V-121	Cervical prozygap.	3.3 N	N	L
AK-533-V-122	Part.lf.quadratojugal	2.5 N	N	N
AK-533-V-123	Indet. bone frag.	2.1 N	N	N
AK-533-V-124	Indet. bone frag.	3.6 N	N	L
AK-533-V-125 AK-533-V-126	Post. Caudal centr. MATRIX	4 N	N	L
AK-533-V-127	Indet. bone frag.	1.7 N	N	L
AK-533-V-128	Cervical prozygap.	4.7 N	N	L
AK-533-V-129 AK-533-V-130	Post. Caudal centr. MATRIX	3.1 N	N	N
AK-533-V-131	Dorsal rib section	7.1 N	N	L

N	T	N	Apex shows very little wear; excellent preservation
S	T,L	N	Possible partial zygapoph.; subrounded--transported/
S	T,L	N	Partial prozygapophysis
N	T,L,C	N	Part of posterior articular margin
N	T,L	N	Angular bone chip--cranial ?
M-P	T,L	N	Angular bone "sliver"; poor preservation--transported/
M-P	T,L	N	Unfused bases; dorso-ventral distortion; adult ?
N	T,L	N	Angular bone chip--cranial ?
S	T,L	N	
N	N	N	Unfused bases; excellent preservation & detail
S	T,LC	N	Mid-rib portion; Laterally compressed & crushed

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ANALYSIS 2004

AK-533-V-132	Part. Dorsal NS	3.7 N	N	L
AK-533-V-133	Pedal ph 3-4, d IV	3.4 N	N	N
AK-533-V-134	Fish scale?	1.5		
AK-533-V-135	Metatarsal IV, Rt.	16.3 Y?	N	L
AK-533-V-136	Part. Neural arch	2.3 N	N	L
AK-533-V-137	Ph. 3-4,d IV, rt. pes	4 N	N	N
AK-533-V-138	Part. Caudal NS	3.6 N	N	N
AK-533-V-139	Part. Caudal centr.	5 N	N	L
AK-533-V-140	Medial caud. Centr.	4.5 N	N	L
AK-533-V-141	Ph. 1, d II, lft. Manus	1.9 N	N	L
AK-533-V-0Q1	OT	1.8 N	N	N
AK-533-V-0Q2	OT	0.9 N	N	N

N	T	N	Missing the proximal & distal ends; well preserved	
N	T	N	Most likely ph4; excellent preservation	& detail
N	T,L,S	N	Could be plant cuticle or part of an insect wing 1 possible tooth mark & assoc. fracture; mod. High frags.	
N	T,S	N	Intermediate size--older juvenile ? Zygapophysis on support?	
N	T,C	N	Excellent preservation	
N	T	N	Distal & proximal ends absent; well preserved	
M-P	N	N	Medial--upper post. Caudal; poorly preserved, transpt.?	
N	S	N	Post. Medial; unfused bases; well preserved	
N	T	N	Proximal end	
N	T	N	Narrow, incomplete	
N	T	N	Narrow, incomplete	

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ANALYSIS 2004

AK-533-V-0Q3	Dorsal rib section		4.5 N	N	L
AK-533-V-0Q4	Post. Caud. Centr.		3.7 N Pathology	N	L
AK-533-V-0Q5	Dorsal rib section		3.4 N	N	N
AK-533-V-0Q6	Part. Caudal NS		3.9 N	N	L
AK-533-V-0Q7 AK-533-V-0Q8	Part. Caud. Chevr. Indet. bone frag.		6 N	N	N
AK-533-V-0Q9	Partial dorsal rib		5.5 N	N	L
AK-533-V-0Q10	Indet. bone frag.		5 N	N	N
AK-533-V-0Q11 AK-533-V-0Q12	Indet. bone frag. Indet. bone frag.		2.2 N	N	M
AK-533-V-0Q13	OT		1.9 N	N	N
AK-533-V-0Q14	Post. Caud. Centr.		2.6 N	N	L
AK-533-V-0Q15	Post. Caud. Chevr.		2.5 N	N	L
AK-533-V-0Q16	Part. Caud. NA	1.0--2.5	N	N	L

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ANALYSIS 2004

S-M	T,L	N	Mid-rib portion; slightly crushed- distorted
M	N	N	Unfused bases; deep broad pit on ant. Surface
N	T,S	N	Mid to near rib head portion; well preserved
N	T,S	N	Distal 1/3 of Neural Spine
S-M	T	N	Main body, proximal processes & tip of pole absent
N	T	N	RNS Post. Or very young individ.; upper mid-rib & head
S-M	T,L,S	N	Angular bone "sliver;" fairly well preserved
M-P	T,L	N	Rounded- subangular, transported end of manal ph.? RNS
N	T	N	Narrow, incomplete
S	N	N	NB unfused Proximal processes & base of pole
N	T	N	Unfused base, base of NS w/zygapophs,
S	T,L	N	misc. frags.

AK-533-V-0Q17	Part. Dorsal NS		3.4 N	N	L
AK-533-V-0Q18	Indet. bone frags.	1.0 & 2.8	N	N	N
AK-533-V-0Q19	Pedal ph 2-3,d III		4.5 N	N	N
AK-533-V-0Q20	Ph 1, d III, lft. Manus		2.3 N	N	N
AK-533-V-0Q21	Post. Caud. Centr.		2.5 N	N	N
AK-533-V-0Q22	Indet. bone frag.		2.7 N	N	L
AK-533-V-0Q23	Post. Caudal centr.		4.2 N	N	N
AK-534-V-001	Part. Caud. Chevr.		2.8 N	N	N
AK-534-V-002	Indet. bone frag.		2.6 N	N	L
AK-534-V-003	Part. Caud. Chevr.		3.2 N	N	N
AK-534-V-004	Partial dorsal rib		13 N	N	L
AK-534-V-005	Ph2, d III, lft. Manus		1.4 N	N	N
AK-534-V-006	Indet. bone frag.		1.7 N	N	L

S	T	N	Basal half of anterior dorsal neural spine
S	T,L	N	Angular bone chips
N	N	N	Excellent preservation
N	S	N	Excellent preservation
N	T	N	Neural bases fused; NA nubs; excellent preservation
N	T	N	Angular, well preserved
N-S	N	N	Unfused bases; older juvenile or subadult?
N	T	N	Mid portion of distal process or pole
S	T,L	N	Shows plastic deformation; angular
S	T	N	Main body, proximal & distal processes absent
S	T	N	Distal end to base of head
N	N	N	Very young juvenile; excellent preservation
S-M	T,L	N	Possible NB that is transported; subrounded

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ANALYSIS 2004

AK-534-V-007	Hadrosaur tooth	1.5 N	N	N
AK-534-V-008	Dorsal rib section	2.8 N	N	L
AK-534-V-009	Part. Caud. Chevr.	3.1 N	N	L
AK-534-V-010	Hadrosaur tooth	2 N	N	N
AK-534-V-011	OT	2.8 N	N	N
AK-534-V-012	Part. Neural arch	1.7 N	N	L
AK-534-V-013	Part. Caud. Chevr.	3.8 N	N	N
AK-534-V-014	Manal ungual d II	3.3 N	N	N
AK-534-V-015	Part. Dorsal NA	6.7 N	N	N
AK-534-V-016	Manal ungual d III	3.3 N	N	N
AK-534-V-017	OT	3.6 N	N	N
AK-534-V-018	Partial neural arch	2.9 N	N	N
AK-534-V-019	Part. Cervical NA	3.3 N	N	N

N	T	N	Unfaceted crown + partial root; well preserved Mid-rib; laterally compessed & distorted; young juv.?
S-M	T,L	N	Distal pole portion-- distorted
N	T	N	Moderately faceted crown & part. Root
N	T	N	Part of unfused neural base + neural canal wall Mid portion of distal process or pole; distorted Could be very young pedal II or IV; excellent preserv.
S	T	N	Neural bases absent--degraged punky; ant. Dorsal
N	T	N	See #014 Moderately wide, incomplete
N	N	N	Unfused neural base + NC wall, cervical vertebra ? Rt. 1/2 of neural arch--unfused base, prozygap., & NC
S-M-P	T,L,C	N	
N	N	N	
N	T	N	
N	T	N	
N-S	T,L	N	

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ANALYSIS 2004

AK-534-V-020	Indet. bone frag.	3.4		
AK-534-V-021	Dorsal rib section	3.5 N	N	L
AK-534-V-022	Indet. bone frag.	2.7 N	N	L
AK-534-V-023	NUMBERING ERROR			
AK-534-V-024	Dorsal rib section	2.8 N	N	N
AK-534-V-025	Indet. bone frag.	6.6 N	N	L
AK-534-V-026	Indet. bone frag.	1.6 N	N	L
AK-534-V-027	Post. Caud. Centr.	1.2 N	N	N
AK-534-V-028	Post. Dorsal NA &S	7.3 N	N	N
AK-534-V-029	Hadrosaur tooth	0 N	N	N
AK-534-V-030	Indet. bone frag.	0.6 N	N	M
AK-534-V-031	OT	2.1 N	N	N-S

			RNS
N	T,S	N	Right ? Base of head section; well preserved
N	T,L	N	Angular bone "sliver"; well preserved
S	T,L	N	Mid-rib portion; split longitudinally & weathered
S	T,L	N	Large "chip;" angular & weathered on inside
N	T,L	N	Angular - subrounded chip; possible NS piece
N	N	N	Possible neonate or very young indiv.; excellent pres.
S-M	T,L	N	2/3rds of NS & both LP absent; unfused neural bases
N-S	T	N	Unfaceted crown; enameled margin denticulate
M-P	T,L	N	Subrounded, subspherical; trans/reworked ?
N	T	N	Narrow, incomplete

AK-534-V-032	Medial caud. Centr.		4.5 N	N	N
AK-534-V-033 AK-534-V-034	Indet. bone frag. MATRIX		2.8 N	N	S-M
AK-534-V-035 AK-534-V-036	Dorsal rib section OT	1.7 & 2.0	N 2.9	N	S-M
AK-534-V-037	Part. Dorsal rib	5.3 largest	N	N	N
AK-534-V-038	Dorsal rib sections	1.3 & 1.5	N	N	L
AK-534-V-039	Pedal ph2-3,d III		5 N	N	N
AK-534-V-040	Part. Lt. Postorbital		5 N	N	N
AK-534-V-041	Indet. bone frag.		1.5 N	N	L
AK-534-V-042	Indet. cranial frag.		2.5 N	N	N

S	T	N	Lower medial; neural bases & LP unfused; well preser.	
H-P	T,L	N	Subangular, highly degraded bone "chip;" allochthonous ?	
M-P	T,L	N	Mid-rib; laterally compressed & distorted; young juv.? RNS	
M-P	T,L,C,S	N	Head & head base, crushed & poorly preserved	
S	T,L	N	Mid-rib portion; slightly compressed, somewhat degrad. Slightly distorted; excellent preservation & detail	
N	T	N	Main body, proximal & distal processes absent	
S	T,L,C	N	Well rounded, subspherical; transported- reworked ?	
M-P	T,L	N		
N	T,L	N	Angular & very well preserved; ID ?	r medial? Possible lesion

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AK-534-V-043	Metacarpal IV, rt.	11.2 N	N	N
AK-534-V-044	Indet. bone frag.	1.7 N	N	N
AK-534-V-045	Hadrosaur tooth	0.8 N	N	N
AK-534-V-046	Post. Caud. Centr.	2.5 N	N	L
AK-534-V-047	Medial caud. Centr.	4.1 N Pathology	N	N
AK-534-V-048	Post. Caud. Centr.	2.9 N	N	N
AK-534-V-049	Indet. bone frag.	2 N	N	M
AK-534-V-050	Part. Caud. NA & S	7.8 N	N	L
AK-534-V-051	Part.post. Dors. Rib	8.7 N	N	N
AK-534-V-052	Part. Post. Dors. Rib	7.3 N	N	N
AK-534-V-053	Indet. bone section.	7.5 N	N	N
AK-534-V-054	Indet. bone frag.	1.5 N	N	N

S	T,L,S	N	Right manus; fairly well preserved
S-M	T,L	N	Angular-subrounded; fairly well preserved
N	T	N	Highly faceted-worn crown
M	N	N	Fused neural bases; highly degraded surfaces-rework
N	N	N	Unfused NB & LP; lower medial; arcuate lesion
N	N	N	Fused neural bases; excellent preservation
S-M-P	T,L	N	Angular-subrounded; poorly preserved; allochthonous ?
M	T,L	N	Distal 2/3rds of neural spine absent
S	T	N	Distal to base of head; could be young juvenile
S	T	N	Mid-rib to near end of head, tubercle present
S,M,P	T,L,C	N	Possible radius shaft; crushed & poorly preserved
N	T,L	N	Cranial fragment?

AK-534-V-055	Partial neural spine		6.2 N	N	L
AK-534-V-056	Indet. bone frag.		1.6 N	N	N
AK-534-V-057	Max/dentary frag.		1.4 N	N	N
AK-534-V-058	Dorsal rib section	12.9/6.5	N	N	L
AK-534-V-059	OT	4.5/ 3.5	N	N	L
AK-534-V-060	Part. Post. Dors. Rib		14 N	N	L
AK-534-V-061	Indet. bone frag.		2.2 N	N	N
AK-534-V-062	Dorsal rib section		6 N	N	N
AK-534-V-063	Tip of dorsal NS		2.5 N	N	L
AK-534-V-064	Part. Neural spine		5.8 N	N	L
AK-534-V-065	UNUSUAL NC RIB			SEE DIGITAL IMAGES	
AK-534-V-066	Post. Caud. Centr.		1.6 N	N	N
AK-534-V-067	Part. Caudal NA &S		9.4 N	N	N

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N	T,S	N	Distal 1/4 & part of proximal absent Possible piece of a caudal chevron	
N	T	N	proximal process Angular piece with parts of three tooth grooves	
N	T,L	N	Mid-rib; laterally compressed & highly fractured	
M-P	T,L,C	N	Narrow, unusually long, incomplete	
N	T	N		ile ?
S	T,S	N	Distal end and end of head absent; mid-distal highly frac. Angular bone "chip" , cranial ?	
N	T,L	N	Well preserved	
S	T,L,C	N	Mid-rib section; compressed laterally, fractured	
N-S	T	N		
S	T,S	N	Distal 2/3rds of neural spine Possible ceratopsid post.dorsal	
N	N	N	Fused NBs nubs present; very young juvenile /	
N	T,S	N	Medial caudal; distal 1/4 of neural spine absent	

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AK-534-V-068	Cerv. Prozyga.+NB	2.1 & 2.8	N	N	L
AK-534-V-069	Post. Caud. Centr.		4 N	N	N
AK-534-V-070	Ph.1, d V, rt. manus		2.1 N	N	N
AK-534-V-071 AK-534-V-072	Post. Caud. Centr. Partial humerus		4.5 N 15.2	N	N
AK-534-V-073	Part. Caudal NS		4.5 N	N	L
AK-534-V-074	Dorsal rib section		2.8 N	N	L
AK-534-V-075	Post. Dorsal rib sec		5.5 N	N	L
AK-534-V-076	Dorsal rib section		2.5 N	N	L
AK-534-V-077	Partial palatine?		3 N	N	N
AK-534-V-078	Part. caudal NS		4.2 N	N	N
AK-534-V-079	Caud. Lat. Process		3.2 N	N	L
AK-534-V-080	Indet. bone frag.		2.1 N	N	L

S	T	N	Angular & slightly degraded
S	S	N	Unfused NBs; very well preserved
N	S	N	Excellent preservation & detail
M-P	N	N	Unfused NBs; punky poor preserv.
N	T	N	Distal end; RNS Medial caudal; distal end & proximal 1/2 absent
N	T	N	Mid-rib piece; angular & well preserved
N	T,S	N	Mid-rib to mid head; post. Dorsal of very young juvenile
N	T,S	N	Piece of distal section of rib; fairly well preserved
N	T,L,S	N	Main body, proximal & distal processes absent
S-M	T,L,S	N	Base and distal 2/3ds absent; poorly preserved
S	T	N	Medial caudal; unfused base; base poorly preserved
S-M	T,L	N	Angular bone "chip"

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ANALYSIS 2004

AK-534-V-081	Bony fish centrum		0.7 N	N	N
AK-534-V-082	OT	4.7/4.4	N	N	N
AK-534-V-083	Part. Cervical NA	1.8-2.6	N	N	L
AK-534-V-084	Quadratojugal frag. ?		3.1 N	N	N
AK-534-V-085	OT	5.7/3.6	N	N	N
AK-534-V-086	Dorsal rib section		7.8 N	N	N
AK-534-V-087	Laterosphenoid frag		2 N	N	N
AK-534-V-088	Rt. scapula & corac		41.5 N	N	L
AK-534-V-089	Pedal ph1, d II, rt.		5.3 N	N	N
AK-534-V-090	Part. Ant. Dors. NA		4.3 N	N	L
AK-534-V-091	Part. Ant. Dors. NS		4.5 N	N	L
AK-534-V-092	Dorsal NS section?		3 N	N	L

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ANALYSIS 2004

N	N	N	
N	T	N	Narrow, unusually long, incomplete
S	T,L	N	Prozygapoph., unfused NB, & wall of neural canal
N	T.L	N	Piece of the posterior-dorsal margin ?
S	T	N	Narrow, unusually long, incomplete
S	T,C	N	Mid-rib to part of distal section; well preserved
N	T,L,S	N	Near center of body ?
S-M-P	T,L,S,C	N	Coracoid punky & crushed; blade highly fractured
N	T	N	Right pes; Excellent preservation & detail
S	T,S	N	Roof of neural arch with base of NS; underside degrad.
S	T,S	N	Basal 1/2 of neural spine; highly fractured, poor preser.
N	T,S	N	Piece of mid portion of neural spine

AK-534-V-093	Post. Caud. Centr.		1.8 N	N	N
AK-534-V-094	Post. Caud. Centr.		1.3 N	N	N
AK-534-V-095	Part. Caudal NS		4 N	N	L
AK-534-V-096	Indet. bone frag.	4.4/ 3.6	N	N	L
AK-534-V-097	Indet. cranial frag.		2.3 N	N	N
AK-534-V-098	Indet. bone frag.		3 N	N	N
AK-534-V-099	Dors. Rib section		3 N	N	N
AK-534-V-100	Indet. bone section.		4.2		
AK-534-V-101	Dors. Vert. postzygap..		2.5 N	N	L
AK-534-V-102	Neural arch frag.		1.5 N	N	L
AK-534-V-103	Cervical prozygap.		6.2 N	N	L
AK-534-V-104	Part. Caudal NS		3 N	N	N
AK-534-V-105	Part. post. Cerv. NA		11 N	N	L

N	N	N	NBs fused, NA "nubs"; excellent presv.; very young juv.
N	N	N	NBs fused, NA "nubs"; very young juv? SEE #93
N	T,S	N	Distal 1/3 of medial or post. Caudal; fairly good preserv. Possible section of radius; poor preserv.; lat.
M-P	T,L	N	Compres.
N	T	N	Angular, well preserved
M-P	T	N	Angular, poor preservation
N	T	N	Mid-rib; possible pathological specimen-swelling RNS
N	T,L	N	Postzygapophysis & support; good preservation
N	T,S	N	Part of wall of neural canal + zygapophysis
N	T,L,S	N	Prozygapophysis & support
N	T	N	Mid 1/3 of neural spine; well preserved
M-P	T,L	N	Unfused NBs; postzygapophyses + NC; NS base

AK-534-V-106	Prox. End, rt. ulna ?	4.7/ 5.4	N	N	L
AK-534-V-107	Part. Left pubis		31.5 N	N	L
AK-534-V-108	Pedal ph 1, d III		8.1 N	N	L
AK-534-V-109	Indet. bone frag.		3.5 N	N	L
AK-534-V-110	Dorsal rib section		7.9 N	N	L
AK-534-V-111	Indet. bone frag.		1.6 N	N	M
AK-534-V-112	Dorsal rib section		7 N	N	L
AK-534-V-113	Part.caudal NS		3.5 N	N	L
AK-534-V-114	Left humerus		25 Y?	N	N
AK-534-V-115	Part. Right frontal		6 N	N	N

M	T,L,S	N	Medial process + olecronon notch; somewhat degraded
S	T,L,S,C	N	Ant. 1/3 of blade broken-displaced; part. Ischiadic ped. Dorso-ventrally crushed & flattened; poorly preserved
M-P	T,L,C	N	
M	T,L	N	
M-P	T,L	N	Mid-rib; laterally compressed & fractured, poor preserved. Rounded- subangular, subspherical; poor pres.-- allochthonos?
M	T,L	N	Mid-rib;slightly compressed laterally; poor preservation
M-P	T,S	N	
S	T	N	Basal 1/2 of neural spine; post. Caudal Highly fractured, crushed from deltopectoral ridge to head
N	T,L,C,S	N	Anterior 1/3 absent; crushed in part; excellent sutures
S-M-P	T,L,C	N	

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ANALYSIS 2004

AK-534-V-116	Indet. bone frag.		7.4 N	N	L
AK-534-V-117	Medial caud. Centr.		6.5 N	N	L
AK-534-V-118	Part. Caud. NA & S		4.2 N	N	L
AK-534-V-119	Partial ungual		3 N	N	L
AK-534-V-120	Partial right ilium		39.4 N	N	L
AK-534-V-121	Hadrosaur tooth		2.2 N	N	N
AK-534-V-122	Partial neural arch		2.7		
AK-534-V-123	Pedal ph1, d III		6 N	N	N
AK-534-V-124	Left ulna sections	7.0 & 11.1	N	N	L
AK-534-V-125	Metatarsal II, rt.pes		12 N	N	N

M-P	T,L,S	N	Part of a long bone; very punky, poorly preserved Lower medial; neural bases & LP unfused; crushed ant-post.
S-M-P	T,L,C	N	Left side of NA & basal 1/3 of neural spine with zygapophs.
M	T,L	N	
M-P	T,L,C	N	Proximal 1/2 + part of deformed distal margin; poor pres. Antitrochanter & post. Proc. Incomplt.; lat. Compresd/frac
M-P	T,L,C	N	
N	T	N	Unfaceted crown; a little of the root; unusually large
			RNS
S-M-P	T,S	N	Part of lat-proximal margin absent; fairly well preserved Mid shaft 1/3 absent; proximal end punky, poorly preser.
S-M-P	T,LC	N	Mid shaft densly fractured; well preserved in total
S	T,S,C	N	

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BONEBED

ANALYSIS 2004

AK-534-V-126	Post. Caud. Centr.		3.2 N	N	N
AK-534-V-127	OT	7.1/6.6	N	N	N
AK-534-V-128	Right ulna		23.8 N	N	L
AK-534-V-129	Dorsal rib section		5.6 N	N	N
AK-534-V-0Q1	Hadrosaur tooth		1 N	N	N
AK-534-V-0Q2	Hadrosaur tooth		2 N	N	N
AK-534-V-0Q3	Post. Caudal centr.		3.2 N	N	N
AK-534-V-0Q4	Pedal? Ungual d.III		3.9 N	N	N
AK-534-V-0Q5	Pedal ph2-4,d IV,It.		4.4 N	N	N
AK-534-V-0Q6	Pedal ph1, d II, rt.		5.8 Y	N	N
AK-534-V-0Q7	Indet. bone frags.	1.8--2.1	N	N	L

N	S	N	Unfused neural bases; well preserved Thick & moderately wide, incompl., unusually long
S	T,S	N	
S	T,L,S	N	Broken into several large pieces; mod. Well preserved
N	T	N	Mid-distal section; well preserved, no crushing
N	T	N	Slightly faceted crown, no root; very young indivd. Unfaceted partial crown + partial root; poor preserv.
S	T,L	N	Unfused bases; dorsal margins chipped
S	S	N	Could be fairly young indiv.; well preserved
S	T,L,C	N	Crushed ant.-posteriorly; Bite marks on dorsal-proximal margin; excellent preserv.
N	T,S	N	Possible cranial frags.; poor preservation
S	T,L	N	

AK-534-V-0Q8	Indet. cranial frag.		2.5	N	N	N
AK-534-V-0Q9	Post. Caudal centr.		4	N	N	L
AK-534-V-0Q10	Indet. bone frag.		3.1			
AK-83-V-001	Ant.Dorsal vertebra	7.5 x 8.0				
AK-83-V-002	Post. Caudal centr.	1.7 x 1.5				
AK-83-V-003	Part. Right tibia		15			
AK-83-V-004	Part. Right radius		13			
AK-83-V-005	IND bone fragment		3.2			
AK-83-V-006	Ant. Dorsal centrum	4.4 x 5.5				
AK-83-V-007	Hadrosaur tooth					
AK-83-V-008	Part. Rt.quadratojugal		5			
AK-83-V-009	Part. Right ulna		14.8			
AK-83-V-010	Partial vomer		4.4			
AK-83-V-011	Hadrosaur teeth					
AK-83-V-012	Mid-caudal centrum	2.7 x 2.6				
AK-83-V-013	Manal ph2,dIV		2.4			
AK-83-V-014	Part. Right femur		39			
AK-83-V-015	Part. Right fibula	24.0+				
AK-83-V-016	Troodon tooth					
AK-83-V-017	Pedal ph2,3 dIV		3.2			
AK-83-V-018	Pedal ph2,3,dIII		4.2			
AK-83-V-019	Neural arch frags.	1.7 & 3.0				
AK-83-V-020	Pzygoph, dorsal vert		4.4			
AK-83-V-021	Part. Cervical centr.	4.5 x 5.5				

On Loan to M.G.

5 UCMP

On Loan to M.G.

4.4 UCMP

S	T,L	N	Angular; fairly well preserved on one side		
S	N	N	Unfused bases; dorsal margins chipped; fair preserv.		
			RNS		
			NC		
			Outer malleolus Distal 1/3		
			Central part of flange missing; MF, well preserved Distal 1/2		
			Well preserved Four		
			Left Proximal 2/3; highly fr	3; highly fra	ctured & crushed
			Distal end missing; 60		% present
			Right Ind.		

AK-83-V-022	Part. Right fibula		21.2
AK-83-V-023	Post. Caudal centr.	2.8 x 2.2	
AK-83-V-024	Mid-caudal centrum	3.0 x 2.9	
AK-83-V-025	Pedal ph1,d III		5.1
AK-83-V-026	Part.Pedal ph1,d II		5.4
AK-83-V-027	Left calcaneum	4.0 x 3.7	
AK-83-V-028	Hadrosaur teeth		
AK-83-V-029	Hadrosaur tooth		
AK-83-V-030	IND bone fragment		1.7
AK-83-V-031	Caudal TP or rib		3
AK-83-V-032	Mid-caudal centrum	2.5 x 2.1	
AK-83-V-033	Post. Caudal centr.	1.5 x 1.4	
AK-83-V-034	Part. Ant. Dorsal NA		3.4
AK-83-V-035	Part. Post. CC	1.1 x 1.1	
AK-83-V-036	Mid-caudal centrum	2.7 x 2.3	
AK-83-V-037	OT		3.4
AK-83-V-038	Post. Caudal centr.	2.5 x 2.4	
AK-83-V-039	Right Metatarsal III		6.6
AK-83-V-040	Left Metatarsal III		5.8
AK-83-V-041	Part. Left radius		5.6
AK-83-V-042	Part. Rt. Mcarpal IV		6.3
AK-83-V-043	Hadrosaur teeth		
AK-83-V-044	Part. Metatarsal III		10.3
AK-83-V-045	IND bone fragment		3.3
AK-83-V-046	Ant. Mid-caudal cent	3.2 x 3.1	
AK-83-V-047	Upper Anterior CC	3.7 x 3.8	
AK-83-V-048	Neural arch frag.		2
AK-83-V-049	Neural arch frag.		1.5

Numerous
transverse
fractures; well
preserved rans. Fractu res; well preserved

Distal 1/4 missing

NC, well preserved
Four
Partial crown

NC

Left half with
prezygo
Part. Neural arch
pres ent

Partial, distal 1/3
Partial, distal 1/3
Distal 1/4 present
Distal 1/2 present
Three
Proximal 1/2
present

Rounded

1st or 2nd post
sacral
Unfused NB
Unfused NB

AK-83-V-050	Cervical NA frag.		2.1
AK-83-V-051	Neural arch frag.		1.5
AK-83-V-052	Neural arch frag.		1.5
AK-83-V-053	Neural arch frag.		1.3
AK-83-V-054	Upper Anterior CC	3.7 x 3.5	
AK-83-V-055	Neural arch frag.		2.8
AK-83-V-056	Hadrosaur tooth		
AK-83-V-057	Hadrosaur tooth		
AK-83-V-058	Ant. Mid-caudal cent	3.8 x 3.9	
AK-83-V-059	Post. Caudal centr.	1.3 x 1.2	
AK-83-V-060	Post. Caudal centr.	1.6 x 1.5	
AK-83-V-061	Part. Caudal centr.	3.6 x 1.9	
AK-83-V-062	Post. Caudal centr.	2.3 x 2.0	
AK-83-V-063	Mid-caudal centrum	4.3 x 4.7	
AK-83-V-064	Part. Metatarsal III		6.3
AK-83-V-065	Post. Caudal centr.	2.9 x 2.4	
AK-83-V-066	Pedal? Ungual,d III		
AK-83-V-067	Mid-caudal centrum	2.9 x 2.7	
AK-83-V-068	Mid-caudal centrum	3.7 x 3.4	
AK-83-V-069	Mid-caudal centrum	3.4 x 3.0	
AK-83-V-070	IND cranial frag.		7.1
AK-83-V-071	Partial dorsal rib		4
			33.0 base of centrum to tip of neural spine
AK-83-V-072	Ant. Dorsal vertebra	8.0 x 12.5	
AK-83-V-073	Part. Left radius		10
AK-83-V-074	Right humerus		22.2
AK-83-V-075	Mid-caudal centrum	3.1 x 2.0	
			diameter measured just below 4th trochanter
AK-83-V-076	Left femur	43.0 & 19.0	
AK-83-V-077	Part. Right tibia		53

Unfused NB
Unfused NB
Unfused NB
Unfused NB
1st or 2nd post
sacral
NS base present

Partial

Lower or distal
Lower or distal
1/2 present
Lower or distal

Right distal 1/3
prest.
Lower or distal

Part of series ?
Part of series ?
Part of series ?

Mid-rib

NC
Proximal 40%
present
NC

Little distortion
Part of mid-
diaphysis

missing, approx. 2-
3cm

AK-83-V-078	Part. Left tibia	15.4	
AK-83-V-079	Left dentary	20	On loan to M.G. UCMP
AK-83-V-080	Right femur	44	
AK-83-V-081	Part. Radius	4.6	
AK-83-V-082	Part. Left scapula	24	
AK-83-V-083	Part. Right tibia	23.5	dense spiral fractures, compression, & punky in part
AK-83-V-084	Part. Rt. humerus	23.3	RCW= 6.2
AK-83-V-085	Part. Rt.dorsal rib	21	
AK-83-V-086	Part. Metatarsal III	14.9	
AK-83-V-087	Pedal ph1,d II	5.8	
AK-83-V-088	Right Metatarsal III	15.7	
AK-83-V-089	TP of dorsal vertebra	3.4	
AK-83-V-090	Partial left frontal	6	On Loan to M.G. UCMP
AK-83-V-091	Part. Left femur	15	
AK-83-V-092	Left metacarpal III	11.4	
AK-83-V-093	Part. Right humerus	12.5	
AK-83-V-094	Part. Left tibia	12.6	
AK-83-V-095	Right Ectopterygoid	6	On Loan to M.G. UCMP
AK-83-V-096	Right humerus	22.5	RCW=6.0

	Distal 1/3 present		
	NC; coron.& ramus in pieces; no teeth Highly fractured, torqu		no teeth most rows intact
	Proximal 1/5; LorR ?		ed longitudinally
	Posterior 1/3 missing		
	Proximal 1/2 present		
	Part of radial crest mis		sing
	Mid-part of head; high	head; high	ly fractured, crushed
	Right; shaft highly frac		tured
	Complete & well pres.		
	Shaft & prox. 1/2 high		ly fractured
Anterior 10% missing	Well preserved; mod. Fractured		
	Distal 1/4 present		
	Two trans. Fractures,		well preserved
	Distal 40%; highly		fractured
	Distal 1/4 present		well preserved
	NC & well preserved		
	Prox. 2/3 dense radial		fractures, compress ed

AK-83-V-097	Part. Rt. humerus	25.2 RCW=5.5	
AK-83-V-098	Left Metatarsal IV	12	
AK-83-V-099	Left Metatarsal IV	21.2	
AK-83-V-100	Right Metatarsal IV	27.2	Proximal condylar span=11.3
AK-83-V-101	Part. Left fibula	21.8	
AK-83-V-102	Part. Right fibula	8.1	
AK-83-V-103	Partial left radius	11	
AK-83-V-104	Right ulna	21.4	
AK-83-V-105	Rt. caudal NA	3.3	
AK-83-V-106	Left Metatarsal III	11.4	
AK-83-V-107	Right Metatarsal III	16.7	
AK-83-V-108	Part. Left dentary	22	
AK-83-V-109	Left tibia	37.4	
AK-83-V-110	Right ulna	21.6	May be from same individual as #111
AK-83-V-111	Left ulna	23.7	May be from same individual as #111 s #110
AK-83-V-112	Left humerus	24 RCW=5.3	

Mid 1/2 reconstructed Prox. 2/3 highly fractured Shaft with some radial		& transverse fractures
SUBADULT, COMPLETE; excellent preservation		
Proximal 2/3 present Distal end; mod. Fract Distal 1/3; some trans Distal end margin punky Unfused NB NC; highly fractured, Prox. 1/2 highly fractu Coronoid end gone; hi		prox. 1/3 highly fractured & comp. ured, well preserved verse fractures, well preserved y, degraded; 2 transv. Fractures
		transv & spirally red, punky, partly missing ghly fractured, 24 TR, no teeth
Proximal 1/2 especial		ly punky, fractured & crushed
Proximal 1/3 highly fra Proxiamal 1/3 lightly fractured, diaphy Highly fractured, trans	.both transv	ctured ctured shaft reconstructed & spiral, both ends punky

AK-83-V-113	Part. Metatarsal III	10.7
AK-83-V-114	Part. Metatarsal III	6.4
AK-83-V-115	Right exoccipital	6.4 UCMP On Loan to M.G.
AK-83-V-116	Part. Rt. quadrate	15.6 UCMP On Loan to M.G.
AK-83-V-117	Left radius	18.6
AK-83-V-118	Part. Left dentary	13.4
AK-83-V-119	Left radius	20.5
AK-83-V-120	Partial left maxillary	8.6 UCMP On Loan to M.G.
AK-83-V-121	Left postorbital	7.3 UCMP On Loan to M.G.
AK-83-V-122	Part. Rt. humerus	12.4 RCW=6.0
AK-83-V-123	Left lachrymal	5.6 UCMP On Loan to M.G. Ramus + Coronoid height= 13.2cm On Loan to M.G.
AK-83-V-124	Partial left dentary	19 UCMP
AK-83-V-125	Right humerus	25 RCW=6.0

Prox. 1/2 highly fractu	red, punky, R or L IND
R or L IND; poorly pre	served
NC;MF,well preserved	
HF, pterygoid flange missing	
Both ends have degra	ded margins, 6 trans. Fractures
Ant. & post. 1/4 missing; 19 TR, no teeth	
Prox. 1/3 highly frac	tured transversely
Ant. 1/2, no premax. Process; no teeth; mod. Fractured	
NC, most of ventral orbital process np;other processes inc.	
Prox. 1/2, head & margin well pres., interior highly fractured	
NC; MF, well preserved	
Post. HF, piece of angular absent; no teeth, part. Rows	
Prox. End well preserved,rest highly fractured & compres.	

AK-83-V-126	Left Metatarsal III	12
AK-83-V-127	Partial right nasal	8.9 On Loan to M.G. UCMP
AK-83-V-128	Left radius	21
AK-83-V-129	Post. Cervical pyzg.	4
AK-83-V-130	Left Metatarsal II	11.4
AK-83-V-131	Part. Left humerus	11.1
AK-83-V-132	IND jaw fragment	4
AK-83-V-133	Left ulna	23.7
AK-83-V-134	Left metatarsal III	15.1
AK-83-V-135	Part. Left (?) ulna	21.4
AK-83-V-136	Part. Left Tibia	14.8 MC= 27.4
AK-83-V-137	Part. Maxillary	13.2
AK-83-V-138	Left humerus	24 RCW=5.8
AK-83-V-139	Right metatarsal IV	13.5

Mid shaft & distal
end highly
fractured
Posterior 1/2
missing, MF, well
preserv
Prox. & distal ends
par

tly crushed &
punky

Well preserved
Prox. 1/3 highly
fractured &
compressed

Highly fractured,
some compression

Prox. 1/2 highly
fractured &
compressed
Prox. 1/3 highly
fractured &
compressed
Both ends,
crushed, punky &
distorted
Distal end,
fractured but well
preserved
Highly crushed,
distorted, R-L Ind.
26TR, no teeth
Mid section highly
fractured, pieces
dislocated
Mid shaft & prox.
1/3 fractured,
crushed, & punky

d, some dislocation

AK-83-V-140	Left tibia		37.7 MC=18.8
AK-83-V-141	Left metacarpal IV		11
AK-83-V-142	Right metatarsal II		11.9
AK-83-V-143	Part. Right tibia		15.8 MC=15.8
AK-83-V-144	Part. Right maxilla		9.8
AK-83-V-145	Left metatarsal III		15
AK-83-V-146	Part. Caudal chevron		6.7
AK-83-V-147	IND jaw section		8.4
AK-83-V-148	Post. Caudal NA		1.7
AK-83-V-149	Pedal ph1,d III	5.7 x 4.8	
AK-83-V-150	Lft. Manal ph2, d II		2.3
AK-83-V-151	IND tibia in jacket		
AK-83-V-152	Part. Metatarsal ?		11
AK-83-V-153	Left tibia		36
AK-83-V-154	Right metatarsal III		15.8

Shaft & prox. End
 highly fractured-
 spiral, compressed
 Few transverse
 fractures, well
 preserved
 Prox. 1/2 highly
 fractured &
 crushed
 Distal end and part
 of diaphysis
 preserved
 Mid 1/3 highly
 crushed; 19 TR 9,
 teeth present
 Prox. 1/3 crushed
 & punky
 Part of one prox.
 Process missing
 Crushed & highly
 fractured, teeth
 present
 1/2 of arch,
 unfused
 Right; possible bite
 marks
 well preserved

neural base

Highly crushed &

distorted

Shaft highly
 fractured,

repaired, prox. End
 punky & crush
 highly fractured as
 is shaft

Prox. End repaired,

AK-83-V-155	Part. Left scapula	22.9	
AK-83-V-156	Part. Left scapula	18.5	
AK-83-V-157	Right metacarpal II	8	
AK-83-V-158	Left tibia	39.5	
AK-83-V-159	Ant. Dorsal centr. 5.3 x 5.4		
AK-83-V-160	Right scapula	34.5	
AK-83-V-161	Left tibia	36.4	
AK-83-V-162	Cervical rib	6.8	
AK-83-V-163	Right radius	23	
AK-83-V-164	Right Jugal	13.8	On Loan to M.G. UCMP
AK-83-V-165	Partial right dentary	10.4	
AK-83-V-166	Left humerus	22.2	RCW=5.7
AK-83-V-167	Left metatarsal III	14.9	
AK-83-V-168	Left Premaxilla	9.4	On Loan to M.G. UCMP
AK-83-V-169	Right humerus	21.4	On Loan to DMNH, T. Fiorillo
AK-83-V-170	Partial jugal	7	
AK-83-V-171	Left maxilla	17.2	On Loan to M.G. UCMP
AK-83-V-172	Supraoccipital	6	

90% complete;
highly fractured
ant.&

actured; post. Ends
missing

50% complete; ant.
Prox. Margin
degrad

end highly
fractured & torqued,
rest well
preserved
spiral &

Shaft & prox. End
HF

compressed,
punky

Well preserved
Blade HF,
pavement;
Shaft HF; distal
end

some ant. Marginal
punk

Well preserved

best shape

Six trans.

fairly well
preserved overall

Fractures;

NC, posterior 1/3

HF

Anterior end; 4 TR,
no teeth

HF, crushed &
punky

Prox. 1/3 HF,
crushed

punky

NC, HF, poorly
preserved

NC, well preserved

Post. 1/2; no
sutures

HF, compressed,
ling.plt., teeth, 23-

24 tooth rows

HF; repaired

AK-83-V-173	Partial left ilium		21
AK-83-V-174	Partial left ulna		10.5
AK-83-V-175	Right humerus		23 RCW=5.7 On Loan to M.G.
AK-83-V-176	Part. Rt. quadrate		15 UCMP
AK-83-V-177	RightPedal ph1,d II		5.5
AK-83-V-178	Post. Caudal centr.	2.7 x 2.1	
AK-83-V-179	Caudal neural arch		5.8 ON EXHIBIT AT
AK-83-V-180	Right tibia		44 UAMN
AK-83-V-181	Part. Left dentary		19.1
AK-83-V-182	Right surangular		8.2 UCMP On Loan to M.G.
AK-83-V-183	Left exoccipital		7 UCMP On Loan to M.G.
AK-83-V-184	Right pedal ph1,dIV		4.7
AK-83-V-185	Partial right dentary		16.3
AK-83-V-186	Left humerus		21.5 RCW=4.3
AK-83-V-187	Dentary	unobtainable	
AK-83-V-188	Left maxillary		10 UAMN ON EXHIBIT AT
AK-83-V-189	Part.rt. surangular	5.6 x 4.5	
AK-83-V-190	Left tibia		39.2 Circ. 15.0 mid shaft

Post. 1/2; Pprocess Distal 1/3 present; fair	NC; HF, crushed preservation
Prox. 1/2 HF; head MF; pterygoid flange missing Moderately fractured Well preserved Trans. Fractures; NB Complete, well preserved Ant. 2/3; HF; 24 TR, no teeth NC; M-HF, flange HF; punky & crushed NC; HF---mid to ventral margin Complete, well preserved Ant. 2/3 present; HF; 15 TR, no teeth Radial crest reconstru	well preserved unfused; fairly well pres. ted; head well preserved
HF & dislocated; still in partial jacket	
22 TR, no teeth Post. Mid section pre Prox. 1/2 HF-- spiral &	sent, approx 30% compression

AK-83-V-191	Left surangular		On Loan to M.G. 8 UCMP
AK-83-V-192	Mid-caudal centrum	3.5 x 3.3	
AK-83-V-193	Rt.metacarpal IV		10.8
AK-83-V-194	Left metatarsal II		12.7
AK-83-V-195	Part. Dorsal NA		8.2
AK-83-V-196	Part. Ant. Dorsal vert	4.0 x 5.0	
AK-83-V-197	Right metatarsal III		15
AK-83-V-198	Left metatarsal II		12.5
AK-83-V-199	Right Frontal		On Loan to M.G. 10.3 UCMP
AK-83-V-200	Partial left maxilla		On Loan to M.G. 12.2 UCMP
AK-83-V-201	Left pterygoid	8.0 x 7.8	On Loan to M.G. UCMP
AK-83-V-202	Right humerus		24 RCW=5.7
AK-83-V-203	Part. Left ulna		23.8
AK-83-V-204	Part. Left maxilla		18.8
AK-83-V-205	Part. Left maxillary		On Loan to M.G. 10 UCMP

NC; MF & well
preserved
well preserved
Four trans.
Fractures;

fairly well
preserved

Shaft HF, some dis

placement
Pozygapoph.prese
nt, HF

Base of NS & rt LP,

Partial LP present

Shaft HF, partially
reconstructed-
plaster

Shaft HF, partially
reconstructed-
plaster

NC; HF, tip of ant.
Process missing
Post. 2/3 present;
HF,punky,displaced
; teeth present
NC; MF, well
preserved
Prox. 1/2 HF,
interior crushed,
compressed

Distal end missing;
prox. 2/3 HF,
crushed, distorted
Mid sect.
HF,crushed; 28 TR,
49 teeth
Post. 1/2 missing;
teeth absent

AK-83-V-206	Rt.humerus & rt. dentary in small jacket; both highly fractured and crushed, dislocated	
AK-83-V-207	Part.lft.prefrontal	4.8 On Loan to M.G. UCMP
AK-83-V-208	Part. Left ilium	16
AK-83-V-209	Right metatarsal III	15.3
AK-83-V-210	Right Ectopterygoid	7.3 On Loan to M.G. UCMP
AK-83-V-211	Part. Left dentary	14.6
AK-83-V-212	Right fibula	34.8
AK-83-V-213	Right jugal	13 On Loan to M.G. UCMP
AK-83-V-214	Part. Rt. surangular	7.4 On Loan to M.G. UCMP
AK-83-V-215	Left postorbital	7.8 On Loan to M.G. UCMP
AK-83-V-216	Part. Right pubis	14.5

Anterior 1/3
missing; well
preserved

Most of ant.
Process &
peduncle present,
fractured, FWP
Shaft HF, some
displacement
NC; MF, well
preserved
Ant. 1/2 +
coronoid; HF; 12
TR, no teeth
Prox. End margin
degraded; prox &
dist. 1/3 HF

Post. 1/3 gone; Ant.
1/3 HF, crushed, dist
orted
MF; ant. & post.
Ends missing
NC; some
fractures, well
preserved

Base of blade, iliac
peduncle, & base
of Ppubis present

AK-83-V-217	Partial left maxilla	12.3	On Loan to M.G. UCMP	Cast by UCMP
AK-83-V-218	Left metatarsal III	15.6		
AK-83-V-219	Partial left nasal	7	On Loan to M.G. UCMP	
AK-83-V-220	Part. Radius, L-R ?	18.7		
AK-83-V-221	Left metacarpal II	8		
AK-83-V-222	Left metacarpal III	10.6		
AK-83-V-223	Part. Lt. quad-ptery	16.9	On Loan to M.G. UCMP	
AK-83-V-224	Part.rib or humerus	13		
AK-83-V-225	Femur in jacket			
AK-83-V-226	Part. Left radius	19.8		
AK-83-V-227	Part. Right fibula	19	MC=8.3	
AK-83-V-228	Part. Left ischium	19.2		
AK-83-V-229	Right tibia	28 circ.	14.8 mid shaft	
AK-83-V-230	Left scapula	26.5		
AK-83-V-231	Right humerus	24.4	RCW=6.0	

Ant. 1/2
present; HF; few
partial teeth

Shaft & distal 1/3
HF, pieces missing

75% complete; MF,
well preserved
Both ends highly
degraded---
abraded ?
2/3 present, prox.
Articular surface
gone, FWP
Shaft w/5
transverse
fractures; FWP
NC; pterygoid
flange HF
Prox. 1/2 with
head? Young
juvenile humerus
or rib section.

Transverse
fractures common,
part of shaft
missing

Shaft HF--spiral;
prox. & dist. Ends
show compression

AK-83-V-232	Right Jugal	15.5	On Loan to M.G. UCMP	Cast by UCMP
AK-83-V-233	Part. Left Tibia	25.4	MC=16.9	
AK-83-V-234	Left metatarsal IV	10.4		
AK-83-V-235	Part. Rt. maxilla	7.2		
AK-83-V-236	Part. Lft. Surangl.	8.5	On Loan to M.G. UCMP	
AK-83-V-237	Right metatarsal II	16		
AK-83-V-238	Left humerus	22.6		
AK-83-V-239	Part. Right dentary	6.4		
AK-83-V-240	Left ? Radius	17.5	On loan to M.G. UCMP	
AK-83-V-241	Part. Left dentary	20.7		
AK-83-V-242	Partial rt. quadrate	12.1	On Loan to M.G. UCMP	
AK-83-V-243	Part. Right humerus	20.4	RCW=	
AK-83-V-244	Right humerus	22.8	RCW=	
AK-83-V-245	Right jugal	15.5	On Loan to M.G. UCMP	Cast by UCMP
AK-83-V-246	Part. Left maxilla	12.5		
AK-83-V-247	Left metatarsal IV	12		
AK-83-V-248	Ant.Dorsal vertebra	6.7 x 20.3		
AK-83-V-249	Right dentary	20.9		
AK-83-V-250	Right femur	42.8		
AK-83-V-251	Part. Caudal NA	5.2		
AK-83-V-252	Left tibia	39		

NC; mod.
Fractured except
for HF post. Flange
Distal section

Tooth Rows and
teeth absent
80% complete; well
preserved

No teeth, 12 tooth
rows
NC; few transv.
Fractures; well
preserved
No teeth, 20 tooth
rows
Dorsal 1/2 present;
HF
Missing part of
radial crest

NC; well preserved
No teeth, 23 tooth
rows

NC
No teeth, 19 tooth
rows
Shaft highly
crushed, partly
punky

NC

AK-83-V-253	IND jaw section	9.9 largest	
AK-83-V-254	Right jugal		12.2
			On Loan to
AK-83-V-255	Right humerus		23.7 TF,DMNH
AK-83-V-256	Right humerus		24.6 RCW=
AK-83-V-257	Ant. Caudal NA &S		9
			On Loan to M.G.
AK-83-V-258	Right dentary		22 UCMP
AK-83-V-259	Right metatarsal III		18
AK-83-V-260	Partial fibula		23.3
AK-83-V-261	Part. Left dentary		6.7
AK-83-V-262	Tibia in jacket		
AK-83-V-263	Part. Left fibula		17
AK-83-V-264	Part. Left fibula	61.0+	
			Ramus + Coronoid height= 13.0cm; On Loan to M.G.
AK-83-V-265	Left dentary		21.2 UCMP
			On Loan to M.G.
AK-83-V-266	Partial right jugal		12.5 UCMP
AK-83-V-267	Right humerus		22.7 RCW=
AK-83-V-268	Part. Right fibula		17.9
AK-83-V-269	Part. Right ilium		25.5
AK-83-V-270	Right scapula		30.4
AK-83-V-271	IND bone fragment		6.8
AK-83-V-272	Left humerus		24.8 RCW=
AK-83-V-273	Partial left fibula		
AK-83-V-274	Lft. Manal ph1, d II		3.6
AK-83-V-275	Right humerus		23.4
AK-83-V-276	Lft. Metatarsal IV		12

27 teeth, partial set
of rows
NC

NC

NC; HF-repaired;
no teeth
Fractured &
repaired
R /L Ind.
Meckelian groove;
no teeth, 15 tooth
rows

Adult or subadult

NC; HF; no teeth
Mod. Fractured;
missing 1.2 of post.
Flange
NC
Distal 1/2

NC

Highly fractured &
repaired

Highly fractured &
repaired

AK-83-V-277	Part. Right dentary	14.4	
AK-83-V-278	Partial right nasal ?	12	On Loan to M.G. UCMP
AK-83-V-279	Partial left pubis	17.4	
AK-83-V-280	Left palatine	3.6	On Loan to M.G. UCMP
AK-83-V-281	IND bone fragment	11.2	Unusual, exhibits delamination
AK-83-V-282	Partial left dentary	9.4	
AK-83-V-283	Left metacarpal IV	11	
AK-83-V-284	Left metacarpal III	10.3	
AK-83-V-285	Left ilium	44	
AK-83-V-286	Right humerus	23.7	
AK-83-V-287	Right tibia	39	
AK-83-V-288	Left metatarsal II	11.5	
AK-83-V-289	Right humerus	21.6	RCW=
AK-83-V-290	Left scapula	44	
AK-83-V-291	Left partial dentary	19.7	On Loan to M.G. UCMP
AK-83-V-292	Partial prementary 4.8 x 5.0		On Loan to M.G. UCMP
AK-83-V-293	Partial rt. maxilla	11.3	On Loan to M.G. UCMP
AK-83-V-294	Left nasal	11.9	On Loan to M.G. UCMP

3 part. Teeth, 19
tooth rows
HF; somewhat
weathered--lite
colored

NC; well preserved

Post. 1/3; no teeth,
11 tooth rows

Related to 284 ?

Related to 283 ?
Nearly complete
Poorly preserved
Highly fractured &
repaired
NC

NC, well
preserved;repaired
In partial jacket;
NC; unusually
large---adult?
HF; coron. & part
of angular absent;
no teeth, rows
incompl.

Left 1/4 missing
HF; medial 1/2; few
teeth
NC; MF, well
preserved

AK-83-V-295	Rt. metatarsal III	14.5
AK-83-V-296	Left tibia	22.6
AK-83-V-297	Caudal NA +part NS	11
AK-83-V-298	Partial left ischium	18.9
AK-83-V-299	Left humerus	20.7
AK-83-V-300	Right tibia	39.8
AK-83-V-301	Tibia in jacket	
AK-83-V-302	Part. Dorsal rt. rib	18.5
AK-83-V-303	BONE JAM	On Loan to P. Rich for Dinosaurs of Darkness Exhibit
	Part. Rt. tibia	32+
	Left Femur	45.8
	Right Femur #1	45
	Right Femur #2	42.5
	Part. Mid-dorsal rib	11.7
	On loan to Pat Rich & Dinosaurs of Darkness exhibit	

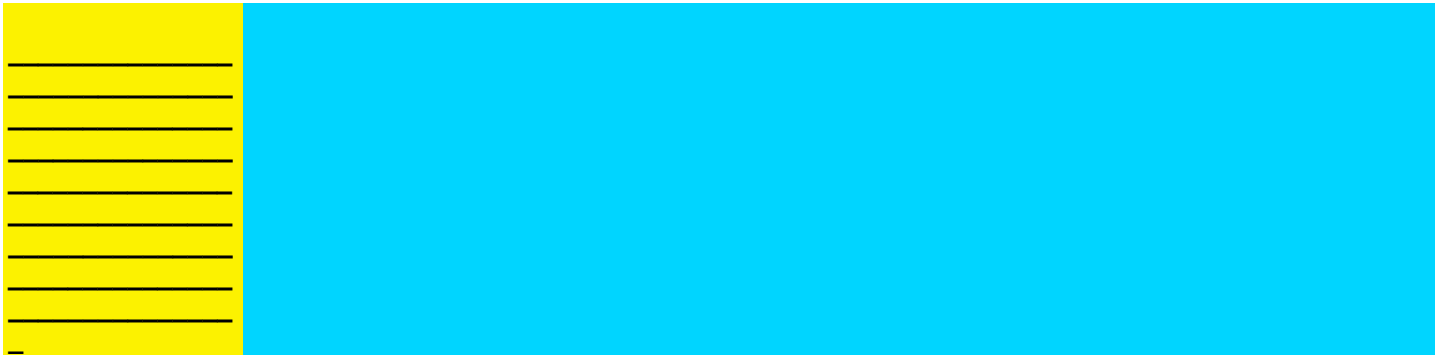
NC, well preserved
Prox. End & shaft
HF, repaired;
requires regluing
Torqued laterally;
NB unfused; Adult
?

NC

NC;
repaired/reconstruc
ted; needs regluing

Mid rib & most of
head, tubercle
gone; highly
crushed

See images



¹ See Appendix VII

² See Appendix V

ABRASION INDEX

N: Evidence of abrasion very slight, margins of breaks angular or unevenly rounded. Stage 0 of Fiorillo (1988a)

L: Abrasion light, little rounding or smothering of breaks or sutural margins, cortical bone slightly thinned. Stage 1 of Fiorillo (1988a)



M: Abrasion moderate, slight to moderate rounding of margins of breaks and sutures, small patches of cortical bone missing.

Stage

2 of Fiorillo (1988a)

H: Abrasion high, margins of breaks or sutures highly rounded, little or no cortical bone present. Stage 3 of Fiorillo (1988a)

WEATHERING INDEX

N: No evidence of weathering. Stage 0 of Behrensmeyer (1978)

S: Weathering slight, some evidence of dissolution, delamination or cracking rare confined to cortical bone; flaking absent or rare. Stage 0-1 of

LISCOMB

BONEBED

ANALYSIS 2004

Behrensmeyer
(1978)
M: Weathering
moderate,
evidence of
dissolution
common;
delamination
common with
cracking and
flaking common,
not dominant.
Stage 1-2 of
Behrensmeyer
(1978)

H: Weathering
high, dissolution
abundant; dense
and deep
longitudinal cracks,
flaking abundant,
cortical bone rare
to absent and may
be etched
by rootlets.
Stage 2-3 of
Behrensmeyer
(1978)

P: Bone punky or soft turning to fine dark brown powder in places. Most likely diagenetic in origin and may be, in part, result of pyrite oxidation.

FRACTURE TYPE

S: Spiral---around long axis of the bone

T: Transverse---Perpendicular or slightly oblique to the long axis of the bone.

L: Longitudinal---Parallel or slightly oblique to the long axis of the bone.

C: Compression---Net or concentric pattern of fractures that are depressed due to broad or highly concentrated loading or force.

