

## INVENTORY OF HUMAN SKELETAL MATERIAL

This table accompanies Section Two, "Human Skeletal Remains from Machu Picchu," by John W. Verano.

Cave or grave number YPM catalog number	Age in years	Sex	Notes and observations
Cave 1 ANT.PA 03156	19 to 23	F	Cranium, mandible and partial postcranial skeleton. Younger age estimate than Eaton's approx. 35 years.
Cave 2 ANT.PA 04746	2 adults	M, ?	Portions of two adult skulls, one male with annular deformation, the other too incomplete to determine sex or deformation.
Cave 3A ANT.PA 03157	30 to 40	F	Largely complete skeleton. Two healed depressed fractures on right parietal (11 × 14 mm) and on frontal (12 × 8 mm). Abscess of RM <sub>1</sub> and severe active inflammation of right maxilla. Midshaft of left femur swollen (section removed in previous study).
Cave 3B ANT.PA 03157	17 to 20	F	Partial skeleton. Caries (LM <sub>2</sub> ) and alveolar abscess of RM <sub>1</sub> .
Cave 4 ANT.PA 03158	Young adult	M	Cranium with mild annular deformation; cribra orbitalia.
Cave 4 ANT.PA 03159	Young adult	?M	Undeformed cranium.
Cave 4 Commingled material	5 adults, 1 adolescent	2M, 3F, 1?	Portions of six crania, one male with occipital flattening. Others too fragmentary to assess. Also five incomplete femora, two tibiae, one radius. Femoral shafts show postmortem warping.
Cave 5A ANT.PA 03160	25 to 35	M	Cranium only. Possible tumpline deformation (frontal flattening).
Cave 5B ANT.PA 03161	Middle adult	?F	Partial cranium with pronounced annular deformation. Two femora from cave may be associated with this individual.
Cave 6 ANT.PA 03256	18 to 20	F	Incomplete cranium, mandible, and some postcranial fragments.
Cave 7 ANT.PA 00521	15 to 17	?	Relatively complete skeleton. Occlusal caries on LM <sup>2</sup> and LM <sub>2</sub> . Mild enamel hypoplasias on lower incisors and canines.

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Cave or grave number YPM catalog number	Age in years	Sex	Notes and observations
Cave 8 ANT.PA 00522	Adult	?F	Left humerus, right scapula, left tibia and mandible. Tibia has active periostitis at distal end.
Grave 9 ANT.PA 03163	20 to 25	M	Relatively complete skeleton. Carnivore damage, especially right femur and ribs. Metopism, annular deformation. Lytic lesions on thoracic vertebrae suggest tuberculosis. Trochlea of both humeri show ossification defect.
Grave 9 ANT.PA 03164	18 to 24	F	Skull, clavicles, right radius, left humerus and right femur only. Mild occipital flattening, asymmetrical. Pronounced oral pathology, including multiple caries and abscessed teeth.
Cave 11 ANT.PA 03165	50 to 60 1.5 to 2.0	F ?	Relatively complete skeleton. Heavy tooth wear and degenerative changes in spine, heads of ribs, temporomandibular joints, left knee; enthesiophytes on proximal femora and iliac crest. Strong muscle markings and tendon insertions in upper limbs. Butterfly vertebra (T9), unusual bone growth on right parietal. A child mandible (1.5 to 2 years) also present.
Cave 12 ANT.PA 04749	Adult	F	Fragmentary skull and mandible only.
Cave 13 ANT.PA 03166	45 to 55	F	Relatively complete skeleton. Mild degenerative changes in shoulder, elbow, knees and right temporomandibular joint. Heavy antemortem tooth loss and wear; annular deformation.
Cave 14, Individual A ANT.PA 00523	18 to 21	F	Partial skeleton. One tooth lost antemortem, no other pathology.
Cave 14, Individual B ANT.PA 00523	30 to 45	?F	Fragmentary skull and postcrania. Heavy antemortem tooth loss; pronounced annular deformation; metopism.
Cave 15 ANT.PA 03167	16 to 18	?F	Fragmented skull and some long bones only.
Cave 16 ANT.PA 03168	25 to 30	M	Relatively complete skeleton. Healed fracture, proximal third of left humerus. Impacted right upper third molar; enamel hypoplasias on canines, premolars, M <sub>1</sub> . Skull shows mild occipital flattening.
Cave 17 ANT.PA 03169	45 to 55	F	Incomplete postcranial skeleton. Auricular surface and pubic symphysis show advanced changes, but only minor lipping of a few joint surfaces.

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Cave or grave number YPM catalog number	Age in years	Sex	Notes and observations
Cave 20 ANT.PA 03170	18 to 21	M	Incomplete postcranial skeleton. Postmortem bowing of left ulna and tibia.
Cave 21 ANT.PA 03171	2 adults	M, ?	Partial cranium and fragmentary postcranial elements, plus a partial cranium of a second adult of indeterminate sex.
Cave 21 ANT.PA 03172	2 adults	?, ?	Skull vault and fragments of a second skull, with some fragmentary postcranial elements. Skull vault shows metopism and a large ossicle at lambda.
Rock-sheltered Terrace Grave 23 ANT.PA 03173	16 to 18	M	Mostly complete skeleton. Post-bregmatic depression and porosity on right parietal suggest tumpline use. Proximal femora show pronounced muscle attachment areas for gluteus maximus. Upper right canine and first premolar rotated mesially.
Rock-sheltered Terrace Grave 26 ANT.PA 03175	45 to 55	F	Partial skeleton. Tibiae show remodeled periosteal swelling at midshafts; maxilla and mandible nearly edentulate.
Rock-sheltered Terrace Graves 24, 25, 27 ANT.PA 03174	45 to 55, adult, 20 to 29	F, F, M	Partial skeletons of an adult female 45 to 55, an adult female of indeterminate age, and a young adult male. Rodent gnawing on one long bone fragment. The 45- to 55-year-old shows mild dorsal pitting of pubic bone.
Cave 29 ANT.PA 03176, 03177	2 adults, 1 child	F, F, ?	Skulls, one of which is illustrated in Eaton (1916: pl. 18), are now missing. Present are mixed postcrania of two adult females and a child estimated at 12 to 15 years of age.
Cave 30 ANT.PA 03178	2 adults, 1 infant	?F, ?, ?	Incomplete remains of three individuals. Partial skeleton of an adult, probably female (skull illustrated in Eaton [1916: pl. 20] not found), a badly warped and fragmentary adult skull, and some bones with mummified skin of an infant approximately two years old. Carnivore damage on adult skeleton.
Cave 31 ANT.PA 03179	30 to 40	F	Mostly complete skeleton. Carnivore damage to clavicles, scapulae, knee joints and distal left ulna. Healed porotic hyperostosis and cribra orbitalia. Osteoarthritis of temporomandibular joints. Six teeth lost antemortem, active caries on two teeth.
Cave 31 ANT.PA 03180	35 to 45	F	Mostly complete skeleton. Carnivore damage to clavicles, vertebrae, ribs, ulna and humerus. Heavy antemortem tooth loss.
Cave 31 ANT.PA 03181	25 to 35	F	Cranium only. Occipital flattening, more pronounced on right side. Cribra orbitalia.

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Cave or grave number YPM catalog number	Age in years	Sex	Notes and observations
Cave 32 ANT.PA 03182	30 to 35	M	Mostly complete skeleton. Fragment of frontal bone and two partial fibulae from another individual present. Supernumerary or malerupted and malformed upper incisor.
Cave 33 ANT.PA 03183	25 to 35	M	Mandible and some postcranial elements. No pathology.
Cave 34 ANT.PA 03184	40 to 50	F	Skull, some long bone shafts, and a partial right innominate. Active caries and heavy antemortem tooth loss.
Cave 37 ANT.PA 03186	20 to 30	F	Cranium and mandible. Malerupted RM <sup>3</sup> and interproximal carie on distal RM <sub>1</sub> .
Cave 37 ANT.PA 03187	30 to 40	F	Cranium only. Osteoarthritis, right temporomandibular joint; healed porotic hyperostosis.
Cave 37 ANT.PA 03188	Over 50	F	Cranium only. Heavy tooth wear, multiple abscesses and heavy antemortem tooth loss. Healed lesion (trauma or infection), 17 × 24 mm, on frontal bone at midline.
Cave 37 Commingled material	Adult	F, F, F	Three mandibles that do not match crania ANT.PA 03187 or ANT.PA 03188 (morphologically all female), and an assortment of long bones (MNI=5 based on left femora), fragments of three female innominates, and various vertebrae, sacra, ribs and scapulae.
Cave 38 ANT.PA 03189	35 to 45	F	Fairly complete skeleton. Osteoarthritis of right temporomandibular joint, vertebral osteophytosis on sacrum and lower lumbar vertebrae. Carious lesion on LM <sup>2</sup> .
Cave 39 ANT.PA 03190	20 to 29	?F	Cranium and mandible only.
Grave 40 ANT.PA 03191	30 to 45	F	Partial skeleton. Many of the bones show sun bleaching, as well as carnivore and rodent damage.
Grave 40 ANT.PA 03191	0.5 to 1.0	?	Cranial fragments, mandible, partial left humerus and left scapula of an infant associated with the adult female. Subperiosteal reaction (ossified hematoma?) on both internal and external surfaces of the left parietal.
Grave 40 ANT.PA 03192	30 to 40, adult	F, ?	Partial skeleton, plus some bones of another adult. Strong arms suggested by muscle insertions on proximal humerus and enthesiophyte development around greater and lesser tuberosities of humeri.

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Cave or grave number YPM catalog number	Age in years	Sex	Notes and observations
Grave 40 ANT.PA 03193	Adult	?	Isolated tibia. Ossified subperiosteal hemorrhage on medio-distal aspect of proximal third of shaft associated with a large enthesiophyte (muscle pull?).
Grave 41 ANT.PA 03194	30 to 35	M	Largely complete skeleton. RM <sup>1</sup> abscessed and lost antemortem, otherwise no pathology.
Grave 41 ANT.PA 03195	40 to 50	F	Cranium, left innominate, sacrum, some long bones and vertebrae. Heavy antemortem tooth loss but no other pathology.
Grave 41 ANT.PA 03195	13 to 14	?	Face, mandible and fragmentary postcrania of a child. Age estimated by calcification of third molars.
Grave 42 ANT.PA 03196	40 to 50	M	Cranium and mandible only. Six teeth lost antemortem; no other pathology.
Grave 42 ANT.PA 03197	55 to 65	F	Cranium, mandible, innominates and sacrum. Occipital flattening, more pronounced on right side. Degenerative changes (lipping and pitting) of auricular surfaces, nine teeth lost antemortem; unerupted supernumerary tooth lingual to right upper premolars.
Grave 42 ANT.PA 03198	Over 45	F	Cranium and partial mandible. Heavy antemortem tooth loss; healed lesion at obelion.
Grave 42 ANT.PA 03199	Over 50, 2 adults, infant, child	M, ?, ?, ?	Cranium and mandible of an adult over 50 years. Mild annular deformation, retention of metopic suture; heavy tooth loss. Box also contains tibiae of at least two other adults, and skull fragments of an infant and an older child.
Grave 43 ANT.PA 03200	45 to 55, adult, adolescent	F, M, ?	Relatively complete skeleton of an adult female, plus additional bones from at least two individuals (a young adolescent and an adult male). Pathology: osteoarthritis of temporo-mandibular joints and knees, mild vertebral osteophytosis. All upper teeth and most of lower teeth lost antemortem. Occipital flattening, more pronounced on left side. Apparent healed fracture of left mastoid process.
Grave 45 ANT.PA 00524	Over 35	?F	Partial skeleton. Several teeth lost antemortem, lumbar vertebra fragment shows lipping of body; no other pathology noted.

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Cave or grave number YPM catalog number	Age in years	Sex	Notes and observations
Grave 46 ANT.PA 00524	17 to 20	?F	Partial skeleton. Pronounced bowing of right humerus and femur (postmortem); root growing through diaphysis of left femur.
Cave 47 ANT.PA 03202	5 to 6	?	Cranium, left scapula, first rib and femoral shaft of a child. Cranium shows retention of metopic suture.
Cave 47 ANT.PA 03203	2 adults	M, M	Incomplete remains of two adult males (both judged female by Eaton).
Cave 48 ANT.PA 03204	50 to 60	M	Relatively complete skeleton. Extensive degenerative changes to spine (vertebral osteophytosis and osteoarthritis) and knees. Schmorl's nodes on thoracic vertebrae. Healed fracture on distal third of left radius. Cranium nearly edentulate.
Cave 48 ANT.PA 03205	15 to 18	M	Partial skeleton. Skull shows mild annular deformation.
Cave 49 ANT.PA 03206	18 to 22	F	Skull and long bones only. Right up per canine has two linear hypoplasias. Clear differential preservation of hip, ankle and knees due to burial position.
Cave 50 ANT.PA 03207	25 to 35	F	Partial postcranial skeleton. Head of right femur shows carnivore damage.
Cave 50 ANT.PA 03207	Young adult?		Cranium lacking base; evidence of ancient breakage, apparently intentional. Broken fragments of occipital and parietal bones may be associated.
Cave 50 ANT.PA 03208	11 to 13	?	Cranium, mandible and partial postcrania of a child. Slight cribra orbitalia, distal rotation of upper left first premolar.
Cave 50 ANT.PA 03209	Over 50	F	Mandible, left tibia and partial innominate.
Cave 51 ANT.PA 03210	5 to 7	?	Cranium and mandible, shafts of both tibiae and one femur, right humerus and radius, three cervical vertebrae and one metatarsal. Two lytic lesions on vault, on midline of frontal bone and second located higher on right frontal. Periosteal reaction on endocranial surface (tuberculosis?).
Cave 52 ANT.PA 03211	30 to 40, 3 adults	M, ?, ?, ?	Age and sex estimate on skull. Also assigned number ANT.PA 03211 were eight humeri, six femora, six tibiae and other postcranial elements.

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Cave or grave number YPM catalog number	Age in years	Sex	Notes and observations
Cave 52 ANT.PA 03212	2 adults	?F, ?	Calvaria (with pronounced annular deformation) and mix of postcrania: four scapulae, two sacra, two clavicles, a sternal body, 25 vertebrae, many ribs and a few long bone shafts and fragments. One sacrum shows carnivore damage.
Cave 52 ANT.PA 03213	3 adults	M, ?F, ?	Two mandibles and fragments of at least three crania. One occipital with a large nuchal crest shows occipital flattening and porotic hyperostosis, one gracile cranium with pronounced cribra orbitalia.
Cave 53 ANT.PA 03214	Adult over 50, adult over 50, adult	M, F, ?	Three fragmentary skulls (assigned A, B and C by JWV): A, adult male over 50 with healed fracture of nose; B, partial calvaria of an old adult female; and C, vault fragments of an adult, sex indeterminate. Also some vertebrae, scapulae and long bones.
Cave 53 ANT.PA 03215	30 to 40	F	Female skull, not mentioned in Eaton 1916, but labeled "Grave 53B." Post-bregmatic depression may indicate tumpline use.
Cave 54 ANT.PA 03216, 03217	—	—	Two skulls described by Eaton (1916:56), but not in the Yale Peabody Museum catalog.
Cave 56 ANT.PA 03218	—	—	A fragmentary skull described by Eaton (1916:58), but not in the Yale Peabody Museum catalog.
Cave 57 ANT.PA 00527, 04750	2 adults	F, M	Fragmentary remains of a gracile and a robust adult, presumably a female and male.
Cave 58 ANT.PA 00528	17 to 20, adult	M, ?	Fragmentary skull and postcrania. A few bones of a second individual, adult, also present.
Cave 59 0ANT.PA 00529	2 adults, 1 adolescent	M, F, ?	Very fragmentary remains of an adult male, an adult female, and an adolescent of indeterminate sex.
Cave 60 ANT.PA 04752	10 to 12, adult	?, ?	Fragmentary postcrania (many with carnivore damage) of a 10- to 12-year-old child. Also a few adult bones present as well.
Cave 61 ANT.PA 03219	30 to 40	F	Relatively complete skeleton. Copper staining on left zygomatic arch, left frontal and maxilla. Several abscessed teeth, but no other pathology.
Cave 62 ANT.PA 03220	2 adults, 1 adolescent	M, F, ?	Mixed material including bones from a young adult male (20 to 30), late adolescent female (18 to 21), and vertebrae of an old adult.

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Cave or grave number YPM catalog number	Age in years	Sex	Notes and observations
Cave 63 ANT.PA 03221	25 to 35	M	Nearly complete skeleton. Carnivore damage to left arm, ribs and sternum. Right upper I2–P1 all lost antemortem, possibly as a result of trauma.
Cave 64 ANT.PA 00530	Adolescent, 3 adults	M, F, F, ?	Commingled remains of at least four individuals, based on innominates. Also long bones, vertebrae, scapulae, two sacra, hand and foot bones, two mandibles and some small cranial fragments.
Cave 65 ANT.PA 03222	1.5, 8 to 9, adult	?, ?, F	Skull and partial skeleton of an 8- to 9-year-old child, partial cranium of an infant, plus postcrania of an adult female.
Cave 66 ANT.PA 03223, 03224	—	—	Two skulls described by Eaton (1916:63), but not in the Yale Peabody Museum catalog.
Cave 68 ANT.PA 03225	2 adults	F, ?	Incomplete postcrania of two adults, one clearly female, one of uncertain sex.
Cave 69 ANT.PA 03226	20 to 25	F	Partial postcranial skeleton (skull missing). Three ribs show periostitis on medial aspects of neck and shaft. Vertebrae appear normal.
Cave 71 ANT.PA 03227	19 to 24	M	Mostly complete skeleton. Skull shows mild annular deformation. Lower M3s impacted; upper right second premolar rotated mesially.
Cave 72 ANT.PA 03228	10 to 11	?	Cranium only. Pronounced anterior–posterior flattening. Mild porotic hyperostosis on parietals.
Cave 72 ANT.PA 04753	Adult	?	Postcranial fragments, adult.
Cave 74 ANT.PA 03229	50 to 60	F	Nearly complete skeleton. Degenerative changes in vertebrae, osteoarthritis on different joint surfaces. Compression fracture of 12th thoracic vertebra with anterior wedging. Edentulate maxilla.
Cave 75 ANT.PA 03230	25 to 35	M	Partial skeleton. Healed fracture midshaft of right humerus. Atlas fused to occipital condyles. Carnivore damage.
Cave 75 ANT.PA 03231	30 to 40	M	Partial skeleton. Healed fracture of right distal tibia and fibula.
Cave 77 ANT.PA 03232	40 to 50, 3 adults	F, ?, ?, ?	Partial skeleton of adult female, plus bones of three other adults. Occipital flattening with suprainion depression.
Cave 77 ANT.PA 03233	25 to 35	M	Cranium and partial skeleton. Annular deformation.
Cave 78 ANT.PA 03234	13 to 15 ?		Partial skeleton. Osteomyelitis, left tibia.

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Cave or grave number YPM catalog number	Age in years	Sex	Notes and observations
Cave 78 Commingled	4 adults	F, ?, ?, ?	Long bones, one innominate, vertebrae, scapulae and other fragments of postcrania of a minimum of four individuals.
Cave 80 ANT.PA 03235	45 to 55, 2 adults	F, M, F	Relatively complete skeleton. Occipital flattening; heavy antemortem tooth loss; vertebral osteophytosis on lumbar vertebrae L4 and L5. Some postcrania of two other adults; one male, one female, also present.
Cave 81 ANT.PA 03236	20 to 30, adolescent	M, ?	Skull and partial skeleton. Annular (Aymara) deformation noted by Eaton (1916:70), but skull was reconstructed with plaster and has since fallen apart. Box also includes a fragment of an adolescent innominate as well.
Cave 82 ANT.PA 03237	25 to 35	F	Skull (with annular deformation and metopism) and long bone shafts only.
Cave 83 ANT.PA 00535, Individual 1	50 to 60	F	Partial skeleton of a small female. Arm and shoulder muscles strongly developed, with particularly marked insertions for pectoralis major and deltoids. Antemortem loss of all lower molars and two incisors.
Cave 83 ANT.PA 00535, Individual 2	Adult	M	Fragmentary postcrania of an adult male. Right tibia shows rodent gnawing.
Cave 83 Commingled	1 adult, 1 child	?F, ?	Fragments of a small adult, probably female, and a child under five years. Also an apparent ossified cyst, not associated with a specific set of remains.
Cave 84 ANT.PA 03238	17 to 20	M	Mostly complete skeleton. No pathology.
Cave 84 ANT.PA 03239	35 to 45	M	Nearly complete skeleton. Vertebral osteophytosis, especially on L4; mild osteoarthritis of knee joints. Heavy antemortem tooth loss, abscesses (eight active at time of death) and caries.
Cave 85 ANT.PA 04756	Adult	?	Fragmentary postcrania, one vault fragment and several teeth, all adult.
Cave 88 ANT.PA 03241, Individual 1	?Fetal	?	Single bone (right humerus) of a probable fetus, based on maximum length.
Cave 88 ANT.PA 03241, Individual 2	Birth to 0.5	?	Cranial vault bones and partial postcranial skeleton. Age estimate from long bone length.
Cave 88 ANT.PA 03241, Individual 3	0.5 to 1.5	?	Partial cranium. Age estimated from dental calcification. Endocranial periostitis on occipital; periosteal deposit on roof of right orbit and at glabella.

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Cave or grave number YPM catalog number	Age in years	Sex	Notes and observations
Cave 88 ANT.PA 03241, Individual 4	2.5 to 3.5	?	Long bones only. Age estimate based on their maximum length.
Cave 88 ANT.PA 03241, Individual 5	6 to 7	?	Face and sphenoid bone. Age estimated from dental calcification.
Cave 90 ANT.PA 04757	Birth to 0.5	?	Postcrania only. Eaton (1916:74) mentions bones of a fetus and a 2-year-old child also, but these were not found.
Cave 91 ANT.PA 03242	40 to 50	F	Skull and shafts of leg bones only. Cranium has a smooth-walled perforation (5 mm diameter) located 30 mm above inion (ossification defect?). Heavy wear and maxillary tooth loss.
Cave 93 ANT.PA 03243	30 to 45	F	Skull and fragmentary postcrania. Six teeth lost antemortem, caries present on two teeth.
Cave 95 ANT.PA 04758	Over 45	F	Fragmentary postcrania.
Cave 96 ANT.PA 04759	Adolescent	?	Fragmentary postcrania.
Cave 97 ANT.PA 04760	Adult	?F	Fragmentary postcrania and teeth. Small bones suggest female sex.
Cave 99 ANT.PA 04761	Adult	?M	Fragmentary cranium and postcrania.
Cave 100 ANT.PA 04762	Adult, 7 to 10	?, ?	Fragmentary remains of an adult and a 7- to 10-year-old child (age estimated from tibia length).
Cave 101 ANT.PA 04763	Adult	?	Mandible, portion of femoral shaft and smaller bone fragments.
Cave 103 ANT.PA 04764	2 adults	?, ?	Two fragmentary crania and long bone shaft fragments.
Cave 104 ANT.PA 04765	Adult	?	Mandible and postcranial fragments.
Cave 107 ANT.PA 03247	18 to 21	M	Skull and some long bones. No pathology.
Cave 107 ANT.PA 03248	2 young adults	M, ?	Two skulls and various long bones and fragments. Male skull shows pronounced annular deformation, porotic hyperostosis, pronounced cribra orbitalia, and one hypoplastic line on upper canines.