FAUNAL ANALYSES IN THE NEAR EAST: SCOPE AND LIMITATIONS

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Abstract: Faunal studies are an integral part of archaeological research in the Near East. The questions the excavation can address through the use of animal remains is conceptually broad and methodologically varied. In order for those analyses to be of use, however, one needs to build a framework which could serve as a comparative testground for specific results. In this paper we comment briefly on some of the problems of archaeozoological assemblages on the Near East during the transition to sedentary life.

Keywords: Fauna, Domestication, Sedentism, Mammals, subsistence strategies, Near East, Mesolithic, Neolithic

I. Introduction

Traditionally considered the "cradle of civilisation", the Near East saw the sequential emergence of sedentary societies, agriculture, animal husbandry, and urban life. In none of these events did faunas play a neutral role. Much to the contrary, for phenomena such as sedentarism and stockbreeding, they were the main characters. But their role has emerged gradually during the last seventy years of archaeozoological research and then only in not so straightforward ways (Meadow & Zeder, 1978; Buitenhuis & Clason, 1993; Buitenhuis & Uerpmann, 1995). Because of this, a lot of theorizing, based on sound logic but occasionally not that many data, has ensued and paradoxically, such theorizing has sometimes been to the detriment of a coherent picture emerging from the multitude of faunal reports available (Tchernov, 1992).

Obviously, each site is "a world of its own" and a lot of what happens within it, is not easily extrapolable to apparently similar settings. In order to build a general framework of faunal evolution in the Near East, and of its implications for cultural studies, one nevertheless needs to have a clear picture of the conceptual issues "behind the screen".

In the pages that follow, we have tried to succinctly present some of the questions which the faunal analyst should be able to address in the area during the transition from hunter-gathering societies to farming and settled life in general.

It should be stressed that throughout what follows, the term "Near East" has been used in a rather loose, orientative, manner, encompassing what some authors more properly label "Middle East" on top of what could be a "Near East" sensu stricto.

II. The "Bottleneck" of Reference Specimens
Having only been recently incorporated to the study of the Near eastern archaeozoological faunas, I would like to comment briefly, from the host of issues which one could place under the label of "logistics", on the subject of reference collections in connection with faunal analyses in the area (La Bianca, 1978).

It seems to me that analysts working outside the realm of biology do not fully grasp the importance of variation in the living world. Archaeozoologists are restricted to a much smaller level of this variability but are still forced to work with an immense amount of variation in mind. For any faunal analysis to be reliable, the analyst needs to make positive identifications of potentially thousands upon thousands of different categories of objects (eg., a single fish skull might harbour more than 400 bones in no less than 250-300 different morphologies!). The only way around this is the reference collection.

Reference collections take years to build and, for this reason, faunal analysts rely on those from various institutions. In the Near East, as in other regions outside Europe and North America, the number of institutions with specimens for use in archaeozoological studies is very low and the only operative possibility is to take the specimens "back home". Alternatively one might try to raise a restricted reference collection with the basic stuff for fieldwork!

Fortunately for european archaeozoologists, the Near East belongs, biogeographically speaking, to the Palearctic region which, on top of northern (ie., supra-saharan) Africa and northern/central Asia includes Europe. Because of this, the Near East shares with Europe a rather large number of similar or equivalent (ie., vicariant) species. Such faunal homogeneity, however, is restricted for the most part to medium-large sized mammals (eg., carnivores and ungulates) and birds (in particular migratory species). Since included in these two categories are most of the game animals as well as all the domestic species which we have in Europe (see below), european analysts have not had, for the most part, great difficulties in tackling Near eastern faunal assemblages. This has not always been the case with non-european archaeozoologists.

On the other hand, animals such as microvertebrates or soil arthropods, with restricted mobility, exhibit a far larger degree of endemism and require the build-up of specific collections if one is to make use of them. Normally, these faunas, being more dependent on local conditions, are good bioindicators and, as such, allow one to address a host of paleoenvironmental questions. Occasionally, as in the case of fishes or molluscs, one can also analyze cropping strategies or, even, paleocultural issues (see next section). Despite their importance, this fauna has been neglected for the most part in the Near East sites or, at the most, given a cursory treatment. But even today, when the potential for the systematic retrieval of all these remains can be fully exploited, one is at pains in finding institutions harbouring reliable collections for use by faunal analysts. I, for one, do not yet know of any single institution in the world which harbours a collection of freshwater molluscs or mites for archaeozoological purposes and of very few harbouring amphibians, reptiles and micromammals. The same holds for marine fishes of Indo-Pacific origin (Desse, 1993). Such a

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1 Most of the skeletons from domestic mammals in european institutions are, obviously, from local breeds which, as far as we have seen, are quite different from their near eastern counterparts (more slender and smaller as is normally the case in animals from arid zones). Such morphological, intraspecific, variation might pose a serious problem for the un-aquainted archaeozoologist when he/she first encounters the near east varieties in the field.
state of affairs constitutes a true "bottleneck" for the development of Near East archaeozoology.

III. Sedentism: Cause or Effect?

With independence of the causes which forced people to become sedentary². The shift from ephemeral occupation to prolonged habitation had a far reaching impact on the environment (Tchernov, 1991, 1992, 1993). Although in most cases such impact did not come overnight, at least two different lines of evidence can be tracked down by the faunal analyst:

1. Resource exploitation within a restricted area implies increasingly restricted subsistence strategies resulting in the "broad spectrum exploitation model" as first defined by Flannery (1972). Both qualitative (i.e., shift from big game to smaller ("lower ranked") prey) and quantitative (i.e., percentages of the various taxa cropped by people) parameters help us define such a model (Uerpmann, 1989).

2. Once a more or less constant availability of food and shelter is created by man at a particular place, the stage is set for an array of species to "colonize" that area either as parasites or commensals. Such re-accommodation of biological habits, would allow these faunas to gain ground over their wild counterparts and set the "feedback loop" in motion so that facultative parasites/commensals could eventually become obligate forms (Cohen, 1989; Morales et al., 1995; Les Groube, 1996). By doing so, these species become bio-indicators of human sedentism to an extent which far exceeds that of most domestic taxa. Obviously, one of the aims of faunal analysis is to detect such target taxa (Tchernov, 1991).

Much more can not be said on archaeozoological grounds. Intensive use of resources has been variously labelled by such ambiguous terms as "specialized hunting", "cultural control", "proto-domestication", "overkill (or anti-overkill!) practices" and the like. Within such framework, any particular pattern, whether preferential retrieval of a cohort, size diminution trends and equivalent events have too often been taken to indicate conscious manipulation of the environment without offering much thought to alternative explanations. In many instances, moreover, the hypotheses seem beyond the realm of refutation and in others there seems to be a somewhat circular type of thinking involved. Thus, if a particular sample belongs to a species which was eventually domesticated, any "hints" of deviation in its putative "normal demographic parameters" or structural features might be taken as evidence of "cultural control" leading to domestication (see below). If, on the other hand, those "deviations" are recorded on samples from species which, like gazelles, did not become domestic, then "deviations" "must be the result of preferential hunting practices" (Tchernov, 1993: 12).

IV. Domestication Models: Heuristic Tools

² In view of the consequences which, in terms of human health and nutrition, sedentism brought about (Cohen, 1989; Les Groube, 1996) it seems clear that the phenomenon might have been less of a free "adaptive strategy" and more of an imposed "solution" than many of us would like to admit. On the other hand, hypotheses relying on basically "negative" conditions (e.g., limited movement of populations due to social conditions such as the presence of neighbouring groups) do not in any way rule exogenous agents (such as the onset of wetter conditions in the Levant around 10,300-10,000 BP enabling Natufians to expand their knowledge as intensive users- eventually cultivators- of wild cereals) out of the general framework (Bar Josef & Bieger Cohen, 1989).
With independence of chronological factors\(^3\), domestication models rest on the premise that animal domestication has not been a monocentric phenomenon\(^4\) (Bökönyi, 1993). Despite its non-parsimoniousness, polycentric domestication has been proven beyond reasonable doubts in the case of the dog (Clutton-Brock, 1981, 1984; Olsen, 1985) lending support to the idea that both ethological (Uerpmann, 1996) and evolutionary (Budiansky, 1992) forces acted so that "whenever and wherever man reached a certain level in his cultural development, he began domestication" (Bökönyi, 1993: 4). Although this hypothetical framework has been "never proved beyond the stage of plausible candidate circumstances" (Hole, 1996: 263) it nevertheless allows one to address the issue from a wider perspective than a strictly utilitarian one. One should still be reminded that the power of the domestication models is mainly heuristic and, as of this writing, no definitive identification has been made of where and under circumstances were livestock domesticated for the first time (see next section).

Bökönyi's models address the domestication issue on the additional premise that, in a particular area, particular animals happened to occur "... in such abundance that a successful domestication ... could develop out of their capture and taming (Bökönyi, 1993: 4). Such premise, otherwise logical and parsimonious, does not seem to take into account different "threshold levels" in terms of species densities and seems more appropriate in the case of the domesticated herbivores (eg., no matter how abundant, carnivores never reach densities comparable to prey species). A perhaps more disturbing fact has to do with the second "premise" of Bökönyi's models which requires that, for any particular species to become incorporated into any of them, we need to know that that particular species eventually became domesticated (at one or another place)!. This is the same type of circular reasoning which we denounced in the previous section and one that, inevitably, leads us to trouble (eg., why can we argue for domestic goats in Irak as part of its domestication model ? because goats eventually got domesticated somewhere at some stage!). One way or the other, we still need to stress that Bökönyi's models refer to "animals", never species, since he considered that specific differences were not necessary for the development of the various models proposed. Finally, one should be reminded that we are here referring exclusively to Eurasian models, not taking into consideration other places which, despite geographical proximity (eg. Egypt), do not belong to this author's general "scheme of things". Also, Bökönyi refrains from placing a time scale to them since he believes that doing so would place and extra burden on the heuristic value of these hypotheses. Here are, then, the characteristics of the four Near East domestication models (Figure 1):

1. Anatolian-Mesopotamian: except for the bezoar goat and asiatic mouflon, this model resembles most that which happened in the European subcontinent for, on the top of the European subspecies of aurochs, it also included subspecies of wild boar and wolf quite similar

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3 The onset of animal domestication seems to span over periods 2 (10,300-9,600 BP) and 3 (9,600-8,600 BP) of the chronological scheme proposed by Aurenche et al (1987).

4 This does not seem to be the case for plant domestication where McCorriston & Hole (1991) provide persuasive argument in favour of "...a single development in one locale gradually spreading (from the "Levantine corridor") northwards with branches extending both east and west" (Hole, 1996: 263).
to those found in SE and Central Europe. This was the "domesticated package" later exported to Europe.

2. European: with the exception of the paleolithic/mesolithic finds of dogs (Degelboel, 1961; Bökönyi, 1975, 1978; Benecke, 1993) and some claims of putative domestic pigs (Bibikova, 1960), Bökönyi (1993) contends that "a less ostentatious" domestication of the locally available aurochs, wild swine and wolf probably started in Europe after the caprine-based anatolian stockbreeding, with its accompanying set of domesticates, first set foot in the southern portions of the continent. Such parsimonious postulating of contacts and gradual spreading of imported domesticates, together with the idea to carry on with the domestication of local variants, coexists with a more punctuated type of dispersal in the western mediterranean as exemplified by Zilhão's paradigm of the "enclave" (Zilhão, 1993) where claims for local domestication of aurochs and wild swine have been criticised by several authors (Morales & Martín, 1995; Morales et al, 1995b; Rowley-Conwy, 1995).

3. Palestinian-Arabian: wild sheep and pig are either extremely rare or altogether missing from this region (Figure 1) where bezoar (as well as occasionally ibex) is abundant and auroch is not rare either [wild ass and camel remain two further possibilities (Morales et al, 1995a) and the wolf was apparently present everywhere] (Uerpmann, 1987). All this resulted in an important goat and lesser cattle domestication in the northern area (cattle and, eventually, ass became the dominant elements in the SE portions) thus resembling the Egyptian/East African models where domesticated caproines arrive only during the late Neolithic (Gautier, 1984 a,b). The peculiar feature about this model is that domesticates represent a special, slender, desert type best seen in goat and cattle.

4. Irano-Indian: as in the previous case, this model differs from the first and second at the level of "geographical races" (ie., subspecies). In this way, indian aurochs (Bos primigenius namadicus) and urial (Ovis orientalis) played the leading role here. Secondary role was played by the local subspecies of wild goat, swine and wolf although in these semi-desert and desert settings the pig was a marginal domesticate. The camel has also been postulated to become domesticated here. Zebu cattle, descendants of the indian aurochs and characterized by bifid neural processes of the thoracic vertebrae as well as by slender metapodials and peculiar skull + hornscores, spread from this zone all-over the hot and arid afro-asian regions. Much the same thing seems to have happened with the urial's descendants, bred into specimens with characteristic strongly twisted horns which ended up in the horizontal corksrew types best exemplified by the predynastic sheep of Egypt.

V. The Caproines: a Case Study

In the light of their subsequent economic importance, it is quite surprising to discover just how rare bones form wild goat (Capra aegagrus) and wild sheep (Ovis orientalis) are in pre-neolithic southwest asian sites. Such scarcity seems to be in open conflict with

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5 In his recent review, Legge (1996) mentions "...fewer than 20 late paleolithic and mesolithic sites" and further specifies that "...in only a few instances have both species been identified at the same site. Uerpmann (1987) list six pre-neolithic sites with unquestionable identifications of both sheep and goat, to which list can be added the site of Wadi Judayid (Henry & Turnbull, 1985)" (Op. cit.: 238). On top of this, it should be stressed that, even when found, caprine bones represent a minor resource
Bökonyi's contention that local abundance was a *sine qua non* requirement for the domestication of mammals (Bökonyi, 1993) and places the inferential process on a rather weak basis.

With independence of hypotheses on the role of landscape/environmental triggers, changes in settlement/mobility patterns in human populations at the onset of caprine domestication, management of wild mammals populations, etc. (see Hole 1996 for a recent and comprehensive review of such matters), none of the criteria on which faunal analysts rely for determining the domestic status of caprines remains can be considered absolute (Table 1).

To start, the assumption that caprines in a faunal assemblage were wild when scarce and domestic when abundant is, as acknowledged by Legge (1996), "... an oversimplified view of a complex process" (Op. cit.: 238). (As we have previously argued, much of that reasoning relies on circular arguments).

Obviously, a shift in status from wild to domestic does not imply any speciation/subspeciation event and, consequently, anatomical criteria are essentially useless for diagnostic purposes (even in such straightforward instances as hornedness is the evidence weak for one knows that this mutation accounts for some 1% of cases of hornless individuals in wild populations!) (Clutton-Brock, 1981: 54).

The remaining criteria do not fare much better than this; Thus:

(a) Body size changes, in order to be of any use, need data for contrast. This means to have not only recent osteometrical data on both wild and domestic species (preferably from the same area were sheep/goat remains are being excavated!) but also to monitor osteometrical changes through time. Body size depends on a wealth of phenomena, both "natural" (ie., temperature, sexual dimorphism, etc.) and man-caused and one should have at least an idea of what parameters might be important in a particular case.

(b) Population structure. Although, "it is a problematic to argue that a given population structure differs from the wild norm in that none such exits" (Legge, 1996: 239), this same author later states that "the identification of a high frequency of subadults bones and an adult herd in which females are the majority is evidence for domestication " (Op. cit.: 239) this exemplifies the conceptual mistake of equating taphocenosis with biocenosis. Faunal assemblages from archaeological sites are seldomly (a) catastrophic, localized, events and (b) the strict result of random processes. What one is retrieving is, basically, the remains of what people have been eating (not managing!). By the same token, a strict interpretation of a particular population structure from the exclusive perspective of human interference might, in many instances, be also a gross oversimplification in need of a thorough revision.

(c) Sudden appeareance of a new species in the archaeozooological record can be equated with domestication, particularly when (1) the species is one which we know was eventually domesticated (again the old circular argument) and (2) the corology of the agriotype is clearly disyunct. When the agriotypes have been known to exist in the area where a particular

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relative to other species of ungulates.
site lies (or in nearby areas!) matters might be more difficult to tackle. This applies to caprovine (wild and domesticated forms) throughout the Middle East (Uerpmann, 1987).

Notwithstanding these facts, we must, nevertheless, stress the heuristic power of the synergesis produced when the faunal analyst can combine several, or all, of those lines of evidence at the same moment on a specific sample. This synergesis is further enhanced when a particular set of data can be coupled on a larger scale of events. Pattern-seeking researches, then, should be the prime aim of all studies.

Mainly for this reason, we have tried to summarize, to the best of our ability, the latest evidence for caprovine domestication by targeting on a series of Near East sites from Periods 2 and 3 (Aurenche et al, 1987) where the following parameters have been recorded:

1. Presence of sheep (Ovis sensu lato) and goat (Capra sensu lato) remains (O/C). The logic being that, since both species exhibit different environmental preferences (goats steep and rocky habitats, sheep more undulating terrain) their simultaneous retrieval at a particular site/level, might at least be taken as a hint that "something peculiar" could have been going on.

2. Sheep to goat ratio (O : C). The logic here being that, for synchronic sites from similar settings in a particular region, such ratio could evidence regularities of use (being this dietary or otherwise).

3. Percentage of caprovines over total of fauna (O/C %). The logic in this case being that significant contributions (i.e., 40 % of total number of remains) of the caprovines to the total might indicate a "cropping" intensity well above what seems to be expected in terms of their abundance in preneolithic sites in the area.

4. Size. Simply recorded as "small" or "large" roughly corresponding to what the authors consider domestic or wild.

5. Age and sex peculiarities. The logic here being that skewed distributions of a particular sex or cohort might reflect a preferential use (i.e., dietary or otherwise) of sectors of a population despite the previously mentioned drawbacks.

6. Status. This simply reflects the opinion of the researchers about their faunal material. Faunal analysis is about bones and first-hand contact with them normally places the archaeozoologist in a better position to make more reliable educated guesses about the nature of his/her material than most reviewers might like to acknowledge.

Obviously, the diverse nature and scope of all these analyses is far from providing a homogeneous picture of the state of affairs. Still, a casual look at Table 1 evidences a series of apparent consistencies:

(a) Of all the places under study, caprovine domestication may have occurred for the
first time in the region where Irak, Iran and Turkey intersect. This would be consistent the borderline between Bökényi's Anatolian-Mesopotamian and Irano-Indian domestication models.

(b) Few sites feature "domestic" caprovines prior to 9.000 BP although Hole (1996) maintains that this domestication is most likely to have occurred between 11.000 and 10.000 BP. Whether sheep or goat were domesticated simultaneously or not remains an open question.

(c) There seems to exit a pervasive pattern of putative domesticated caprovines correlating with abundance frequencies 50 % of all the fauna or higher. Normally, these two parameters couple with "small" size but, on view of the scarcity of data, no such correlations can be spotted in the case of age and sex groups.

These are, very briefly, the main "facts". Many more things could be said from both the cultural and hypothetical standpoints but this is well beyond the scope of our paper.

VI. Conclusions

The previous lines are not in any way meant to be an exhaustive review of the major aspects of archaeozoological studies in the Near East but, rather, a series of more or less linked ideas evidencing the range of phenomena (and some of the problems) which any faunal analyst is likely to encounter when studying early Holocene sites in the region.

The questions that can be raised in later (ie., post-Neolithic) stages are different but in no way less interesting or complex. Faunal studies have grown both methodologically, with the incorporation of techniques such as paleo-DNA, trace element and stable isotope analyses, and conceptually. This conceptual growth has much to do with the realisation, on the part of the excavators, that animal remains can be put to uses far beyond the realm of the natural sciences.

At this stage of research, however, one could say that we have hundreds of pieces from a huge jig-saw puzzle whose picture we have been able to decipher but that many of these pieces stand on isolation and, consequently, in may cases we are still unable to place them in their correct position. It is for these reasons that now, more than ever, archaeozoologists need to be incorporated as vital elements of interdisciplinary research teams in the area.

VII. References:


FIGURE 1. Territories of the four Domestication models (after Bökényi, 1993).
<table>
<thead>
<tr>
<th>SITE</th>
<th>DATING</th>
<th>O/C</th>
<th>O-C</th>
<th>% O/C</th>
<th>SIZE</th>
<th>AGE</th>
<th>SEX</th>
<th>STATUS</th>
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<tr>
<td>Caefer Höyük</td>
<td>8980-8400 BP</td>
<td>O,C</td>
<td>1:2:9</td>
<td>56-63 %</td>
<td>LARGE</td>
<td>WILD</td>
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<td>Anıtkö Höyük</td>
<td>8980-8400 BP</td>
<td>O,C</td>
<td>1:4:2</td>
<td>10-26 %</td>
<td>LARGE</td>
<td>WILD ?</td>
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<tr>
<td>Çayönü Tepeş</td>
<td>10000-9000 BP</td>
<td>O,C</td>
<td>1:1:1</td>
<td>+ 80 %</td>
<td>SMALL</td>
<td>35 % NAD</td>
<td>DOMESTIC ?</td>
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<tr>
<td>Çayönü Tepeş</td>
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<td>O,C</td>
<td>1:1:1</td>
<td>+ 80 %</td>
<td>SMALL</td>
<td>35 % NAD</td>
<td>DOMESTIC ?</td>
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<td>8600-7700 BP</td>
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<td>3:1:1</td>
<td>76 %</td>
<td>65 % (36 m)</td>
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<td>IRAN/IRAK</td>
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<td>Tepe Asfab</td>
<td>9755-8700 BP</td>
<td>O,C</td>
<td>1:2:1</td>
<td>36 %</td>
<td>LARGE</td>
<td>18 % NAD</td>
<td>WILD</td>
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<td>Tepe Asfab</td>
<td>Period 5</td>
<td>O,C</td>
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<td>33-40 % NAD</td>
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<td>9000-8450 BP</td>
<td>C</td>
<td>4:1:1</td>
<td>+ 90 %</td>
<td>SMALL</td>
<td>70 % NAD</td>
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<tr>
<td>Gunj Dareh</td>
<td>9000-8450 BP</td>
<td>O</td>
<td>4:1:1</td>
<td>- 10 %</td>
<td>LARGE</td>
<td>?</td>
<td>WILD</td>
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<td>SIRIA</td>
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<tr>
<td>Abu Hureyra</td>
<td>mesolithic</td>
<td>O</td>
<td>6%</td>
<td></td>
<td></td>
<td>6%</td>
<td>WILD</td>
<td></td>
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<tr>
<td>Abu Hureyra 2A</td>
<td>9700-9400 BP (P3)</td>
<td>O,C</td>
<td>12-14 %</td>
<td>SMALL</td>
<td>65 % NAD</td>
<td>bias QQ C</td>
<td>DOMESTIC (C)</td>
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<td>later aceramic Neolithic</td>
<td>O,C</td>
<td>75%</td>
<td>SMALL</td>
<td>bias QQ C</td>
<td>DOMESTIC</td>
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<td>LEVANT</td>
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<tr>
<td>Wadi Judayid</td>
<td>13000-10300 BP</td>
<td>O,C</td>
<td>0 C</td>
<td>LARGE</td>
<td>&quot;peak&quot; 1-2 y</td>
<td>bias QQ</td>
<td>WILD</td>
<td></td>
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<tr>
<td>Tell Aswad (Phase I)</td>
<td>9800-8800 BP</td>
<td>O,C</td>
<td>0 C</td>
<td>SMALL</td>
<td>&quot;peak&quot; 1-2 y</td>
<td>bias QQ</td>
<td>DOMESTIC</td>
<td></td>
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<tr>
<td>Ghoraâfîe (Phase II)</td>
<td>9800-8800 BP</td>
<td>O,C</td>
<td>3:1:1</td>
<td>+ 50 %</td>
<td></td>
<td>DOMESTIC</td>
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<tr>
<td>Tell Ramsâd</td>
<td>(Phase II)</td>
<td>O,C</td>
<td>3:1:1</td>
<td>+ 50 %</td>
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<td>Tell-es-Sultan</td>
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<td>3:1:1</td>
<td>+ 70 %</td>
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<tr>
<td>Tell-es-Sultan</td>
<td>O,C</td>
<td>3:1:1</td>
<td>+ 70 %</td>
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<td>60-70 %</td>
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<td>&quot;O/C&quot;</td>
<td>60-70 %</td>
<td>SMALL</td>
<td></td>
<td></td>
<td>DOMESTIC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ain Ghazal</td>
<td>C</td>
<td>66%</td>
<td>SMALL</td>
<td>60 %&lt; 24 m</td>
<td></td>
<td>WILD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bideh</td>
<td>C</td>
<td>66%</td>
<td>SMALL</td>
<td>60 %&lt; 24 m</td>
<td></td>
<td>WILD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hasta</td>
<td>9600-8600 BP</td>
<td>O,C</td>
<td>2:3:2</td>
<td>76%</td>
<td>SMALL</td>
<td></td>
<td>DOMESTIC</td>
<td></td>
</tr>
<tr>
<td>Jilat 13</td>
<td>7900-7830 BP</td>
<td>O,C</td>
<td>3:1:1</td>
<td>76%</td>
<td>SMALL</td>
<td></td>
<td>DOMESTIC</td>
<td></td>
</tr>
</tbody>
</table>

**TABLE 1.**