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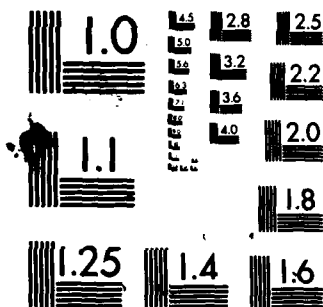
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		
This report presents the results of archaeological investigations conducted by North Texas State University at two Corps of Engineers reservoirs on the San Gabriel River in Central Texas. The archaeology project consisted of site survey, evaluation, and data recovery of endangered cultural resources at North Fork and Granger Reservoirs. Eighty new prehistoric and one hundred historic sites were recorded, of which nine prehistoric and thirteen historic sites had further study. Additional research involved the Hoxie Ranch, and evaluations		

of a Paleo-Indian site (41WM419), and the Cervenka Site (41WM267).

The two reservoirs, located in different environmental zones, offered an opportunity to examine varying human adaptations. First, the cultural patterns of the two reservoirs were delineated. Next, the adaptive patterns and artifact assemblages were compared to determine if the two reservoirs were part of the same cultural area.

Contributions to Central Texas archaeology include: 1) the chronology of human occupation has been augmented by thirty-seven new radiocarbon dates; 2) an alternative to current models of prehistoric adaptation for the area is proposed; 3) an interpretation of the occurrence of burned rock middens has been presented; 4) an evaluation of the "phase" concept in Central Texas indicated the geographical boundaries of the phases varied through time.

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ARCHAEOLOGICAL INVESTIGATIONS
AT THE
SAN GABRIEL RESERVOIR DISTRICTS,
CENTRAL TEXAS

VOLUME 3

Archaeology Program
Institute of Applied Sciences
North Texas State University
Denton, Texas

1982

Appendix A: Plant Species List

The following list of plant species is based on specimens collected from the North Fork and Granger Reservoir study areas. While it is incomplete, most of the prominent species are included. The order is phylogenetic by family, following a modified Engler and Prantl system; genus and species are listed alphabetically. Preferred vernacular names are listed in parenthesis. In addition, plant occurrences in the major vegetation areas are indicated by letter codes.

The following reference keys were consulted: Correll and Johnston 1970; Gould 1978; Vines 1960.

LEGEND

North Fork Reservoir

- U = Uplands
- S = Slopes
- T = Alluvial Terraces (Rangeland species)
- W = Mesic Woodland
- R = Riparian / stockponds
- Sp = Seep Springs / protected wet habitats
- D = Draws and slopes of ephemeral canyon drainages

Granger Reservoir

- R = Riparian / stockponds
- W = Mesic Woodland
- B = Bottomland / Floodplain (old-field / rangeland)
- P = Prairie association

	North Fork	Granger
Polypodiaceae (True ferns)		
<u>Adiantum capillus-veneris</u> L. (venus maidenhair)	Sq	—
<u>Cheilanthes</u> sp. Sw. (lipfern)	S	—
<u>Notholaena dealbata</u> (Pursh) Kunze (powdery cloakfern)	S,U	—
<u>Pellaea atropurpurea</u> (L.) Link (purple cliff brake)	S	—
<u>Thelypteris kunthii</u> (Desv.) Morton (southern shield fern)	Sq	—
Pinaceae (Pine family)		
<u>Juniperus ashei</u> Buchh. (post cedar)	M,S,U	—
Ephedraceae (Ephedra family)		
<u>Ephedra antisiphilitica</u> C.A. Mey. (clapweed)	U	—
Typhaceae (Cat-tail family)		
<u>Typha latifolia</u> L. (common cat-tail)	R (ppnds)	R (ponds)
Potamogetonaceae (Pondweed family)		
<u>Potamogeton</u> spp. L. (Pondweed)	R (ponds)	—
Hydrocharitaceae (Frog's-bit family)		
<u>Egeria densa</u> Planch.	R (ponds)	R (ponds)
Gramineae (Grasses)		
<u>Agrostis hiemalis</u> (Walt.) B.S.P. (winter bentgrass)	—	P
<u>Andropogon gerardii</u> Vitman. var. <u>gerardii</u> (big bluestem)	U,T	B,P
<u>Andropogon glomeratus</u> (Walt.) B.S.P. (bushy bluestem)	—	B
<u>Aristida desmantha</u> Trin. & Rupr.	—	B
<u>Aristida glauca</u> (Nees.) Walp. (blue three-awn)	U,T	—
<u>Aristida longiseta</u> Steud. (red three-awn)	S,U	—
<u>Aristida oligantha</u> Michx. (prairie three-awn)	T	P
<u>Aristida purpurea</u> Nutt. (Purple three-awn)	T	B
<u>Arundo donax</u> L. (giantreed)	—	R (ponds, drainages)
<u>Bothriochloa ischaemum</u> (L.) Keng. var. <u>songarica</u> (Rupr.) Cellarier and Harlan (k.r. bluestem)	M,T	P,B
<u>Bothriochloa saccharoides</u> (Sw. Rydb. var. <u>torreyana</u> (Steud.) Gould. (silver bluestem)	T	B
<u>Bouteloua curtipendula</u> (Michx.) Torr. (side-oats grama)	S,U,T	P
<u>Bouteloua hirsuta</u> L. (hairy grama)	S,U	—
<u>Bouteloua rigidiseta</u> (Steud.) Hitchc. (texas grama)	S,T	—
<u>Bromus japonicus</u> Thunb. (Japanese brome)	M,T	B,P,M
<u>Bromus unioloides</u> (Willd.) H.B.K. (rescuegrass)	D,T	B,M
<u>Buchloe dactyloides</u> (Nutt.) Engelm. (buffalograss)	T	—

Gramineae (Grasses) cont.

	North Fork	Granger
<u>Cenchrus incertus</u> Curtis (coast sandbur)	W,T	B,P
<u>Chasmanthium latifolium</u> (Michx.) Yates (inland sea oats)	—	B
<u>Chloris verticillata</u> Nutt. (tumble windmillgrass)	T	—
<u>Cynodon dactylon</u> (L.) Pers. (bermuda grass)	W,T	B,P
<u>Dichanthelium lindheimeri</u> (Nash) Gould. (lindheimer dichanthelium)	W,T	W
<u>Elymus canadensis</u> L. (canada wild-rye)	W,T	W,B
<u>Eragrostis intermedia</u> Hitchc. (plains lovegrass)	T	—
<u>Eragrostis sessilispica</u> Buckl. (tumble lovegrass)	—	P
<u>Erioneuron pulchellum</u> (H.B.K.) Tateoka (fluffgrass)	U	—
<u>Hordeum pusillum</u> Nutt. var. <u>pusillum</u> (little barley)	W,T	B,P
<u>Lolium perenne</u> L. (perennial ryegrass)	T	W
<u>Muhlenbergia lindheimeri</u> Hitchc. (lindheimer muhly)	S,U	—
<u>Muhlenbergia reverchonii</u> Vasey & Scribn. (seep muhly)	U	—
<u>Muhlenbergia</u> sp.	—	P
<u>Panicum texanum</u> Buckl. (texas panicum)	—	B
<u>Panicum obtusum</u> H.B.K. (vine-mesquite)	—	B,W
<u>Paspalum dissectum</u> (L.) L. (mudbank paspalum)	W	W
<u>Paspalum plicatulum</u> Michx. (brownseed paspalum)	—	B
<u>Phalaris caroliniana</u> Walt. (carolina canarygrass)	—	B,P
<u>Poa annua</u> L. (annual bluegrass)	W	B,W
<u>Schizachyrium scoparium</u> (Michx.) Nash		
var. <u>frequens</u> (F.T. Hubb) Gould (little bluestem)	S,U	P
<u>Setaria geniculata</u> (Lam.) Beauv. (knotroot bristlegrass)	D	W
<u>Setaria reverchonii</u> (Vasey) Pilger (reverchon bristlegrass)	S,T	—
<u>Setaria scheelei</u> (Steud.) Hitchc. (southwestern bristlegrass)	T,D	—
<u>Setaria viridis</u> (L.) Beauv. (green bristlegrass)	—	P
<u>Sorghastrum avenaceum</u> (Michx.) Nash (indiangrass)	S,U	P
<u>Sorghum halepense</u> (L.) Pers. (johnsongrass)	W,T	B,P
<u>Sporobolus asper</u> (Michx.) Kunth. var. <u>asper</u> (tall dropseed)	T,S	B
<u>Sporobolus vaginiflorus</u> () Wood (poverty dropseed)	S,U	—
<u>Stipa leucotricha</u> (Trin. & Rupr.) texas wintergrass)	T	B,P
<u>Tridens muticus</u> (Toff.) Nash. (slim)	S	—

Cyperaceae (Sedge family)

<u>Carex amphibola</u> Steud. (amphibious sedges)	—	W
<u>Carex cherokeensis</u> Schwein. (cherokee sedge)	—	W
<u>Carex microdonta</u> T. & H. (littletooth sedge)	W,S	W
<u>Carex planostachys</u> Kunze. (cedar sedge)	S	—
<u>Cyperus esculentus</u> L. (yellow nut-grass)	—	W
<u>Cyperus odoratus</u> L. (fragrant flatsedge)	W	W

	North Fork	Granger
Cyperaceae (Sedge family) cont.		
<u>Cyperus uniflorus</u> T. & H. (oneflower flatsedge)	W,S	W
<u>Cyperus</u> sp.	—	W
<u>Eleocharis macrostachya</u> Britton (largespike spikesedge)	W	—
<u>Eleocharis montevidensis</u> Kunth. (sand spikesedge)	W,S	W
Bromeliaceae (Pine-apple family)		
<u>Tillandsia recurvata</u> L. (ballmoss)	W,S,U	—
Commelinaceae (Spiderwort family)		
<u>Commelina erecta</u> L. (hierba del pollo)	D,W,S	W
<u>Tradescantia occidentalis</u> (Britt.) Smyth. (prairie spiderwort)	W,T	B,W
Pontederiaceae (Pickereel-weed family)		
<u>Heteranthera limosa</u> (SW.) Willd. (mud plantain)	R(ponds)	—
Juncaceae (Rush family)		
<u>Juncus bufonius</u> L. (toad rush)	W,Sp	W
<u>Juncus interior</u> Wieg. (inland rush)	W,Sp,R(ponds)	—
<u>Juncus</u> sp.	Sp	—
Liliaceae (Lily family)		
<u>Allium canadense</u> L. var. canadense (canada garlic)	—	B,W
<u>Allium canadense</u> L. var. fraseri M. Ombey (wild onion)	W,S	—
<u>Allium drummondii</u> Regel. (wild onion)	D,S,U	—
<u>Allium</u> sp.	U	—
<u>Molina lindheimeriana</u> (Scheele) Wats. (devil's shoestring)	D,S	—
<u>Molina texana</u> Wats. (sacahuista)	S	—
<u>Nothoscordum bivalve</u> (L.) Britt. (crow-poison)	D,S	B,P
<u>Schoenocaulon texanum</u> Scheele (texas sabadilla)	W	—
<u>Smilax bona-nox</u> L. (cat-brier)	W,S,U,T	B,W
<u>Smilax rotundifolia</u> L. (common green-brier)	S	W
<u>Yucca arkansana</u> Trel. (arkansas yucca)	S,U	P
<u>Yucca rupicola</u> Scheele (twisted leaf yucca)	S,U,T	—
<u>Zigadenus</u> sp. Michx. (death camas)	T	—
Iridaceae (Iris family)		
<u>Nemastylis geminiflora</u> Nutt. (prairie pleatleaf)	T	B,P
<u>Sisyrinchium ensigerum</u> Bickn. (swordleaf blue-eyed grass)	W,S	—
<u>Sisyrinchium</u> sp. L. (blue-eyed grass)	—	W

	North Fork	A-5 Granger
Salicaceae (Willow family)		
<u>Populus deltoids</u> Marsh. (eastern cottonwood)	R	R,W
<u>Salix interior</u> Rowlee. (sandbar willow)	—	R
<u>Salix nigra</u> Marsh var. <u>lindheimeri</u> Schneid. (lindheimer's black willow)	—	R
<u>Salix nigra</u> Marsh. var. <u>nigra</u> (black willow)	R	W,R
Juglandaceae (Walnut family)		
<u>Carya illinoensis</u> (Wang.) Koch (pecan)	W,S,D	W
<u>Carya sp.</u> Nutt. (hickory)	W,S,D	W
<u>Juglans major</u> (Torr.) Heller. (arizone walnut)	W,S,D,Sp	W
Fagaceae (Beech family)		
<u>Quercus macrocarpa</u> Michx. (bur oak)	W,S,D	W
<u>Quercus marilandica</u> Muenchh. (blackjack oak)	W,S	—
<u>Quercus marilandica</u> x <u>Q. texana</u>	S	—
<u>Quercus muehlenbergii</u> Engelm. (chinkapin oak)	D,Sp	—
<u>Quercus shumardii</u> Buckl. (southern red oak)	D,S	—
<u>Quercus sinuata</u> var. <u>breviloba</u> (Torr.) C.H. Mull. (white shin oak)	S	—
<u>Quercus texana</u> Buckl. (texas red oak)	D,S	W
<u>Quercus virginiana</u> var. <u>fusiformis</u> (Small) Sarg. (scrublive oak)	W,S,U	—
Ulmaceae (Elm family)		
<u>Celtis laevigata</u> Willd. (texas sugarberry)	—	W
<u>Celtis reticulata</u> Torr. (netleaf hackberry)	W,S,D	B,W
<u>Ulmus alata</u> Michx. (winged elm)	—	W
<u>Ulmus americana</u> L. var. <u>americana</u> (american elm)	W,D	B,W
<u>Ulmus crassifolia</u> Nutt. (cedar elm)	W,S,D	W
<u>Ulmus rubra</u> Muhl. (slippery elm)	D,Sp	W
Moraceae		
<u>Maclura pomifera</u> (Raf.) Schneid. (osage orange)	—	W
<u>Morus alba</u> L. (white mulberry)	W,D,Sp	W
<u>Morus rubra</u> L. (red mulberry)	D	W
Urticaceae (Nettle family)		
<u>Parietaria obtusa</u> Rydb. (hannerwort)	D	—
Loranthaceae (Mistletoe family)		
<u>Phoradendron tomentosum</u> (DC.) Gray. (Mistletoe)	W,S,U,D	W
Polygonaceae (Knotweed family)		
<u>Eriogonum annuum</u> Nutt. (wild buckwheat)	T	—
<u>Rumex altissimus</u> Wood. (pale dock)	—	B,W

	North Fork	Granger
Polygonaceae (Knotweed family) cont.		
<u>Rumex crispus</u> L. (yellow dock)	T	P
Amaranthaceae		
<u>Amaranthus retroflexus</u> L. (redroot amaranth)	T	W
<u>Amaranthus</u> sp.	—	B
<u>Froelichia gracilis</u> (Hook.) Mog. (slender snake-cotton)	W	—
Phytolaccaceae (Pokeweed family)		
<u>Phytolacca americana</u> L. (pokeweed)	S,T	B,P,W
Caryophyllaceae (Pink family)		
<u>Cerastium brachypodum</u> (Engelm.) Robins. (mouse-ear)	S,T	—
<u>Paronychia</u> sp. (whitlow-wort)	S	—
Ranunculaceae (Crowfoot family)		
<u>Anemone heterophylla</u> Nutt. (tenpetal anemone)	S,T,D	B,W
<u>Aquilegia canadensis</u> L. (wild columbine)	Sp	—
<u>Clematis crispa</u> L. (blue jasmine)	—	W
<u>Clematis drummondii</u> T. & G. (texas virgin's bower)	S,D	—
<u>Delphinium virescens</u> Nutt. var. macroceratilis (Rydb.) Cory. (plains larkspur)	T	W
Berberidaceae (Barberry family)		
<u>Berberis trifoliolata</u> Moric. (agarito)	U	—
Papaveraceae (Poppy family)		
<u>Argemone albiflora</u> Hornem. subsp. texana Owney (white prickly poppy)	T	B,P
<u>Corydalis aurea</u> Willd. var. occidentalis Engelm. (scrambled eggs)	S,T	—
Cruciferae (Mustard family)		
<u>Capsella bursa-pastoris</u> (L.) Medic. (shepherd's purse)	T	B,P
<u>Descurainia pinnata</u> (Walt.) Britt. (tansymustard)	T	B,P
<u>Draba cuneifolia</u> Nutt. (wedgeleaf draba)	T	P
<u>Lepidium virginicum</u> L. var. virginicum (virginia pepperweed)	W,T	P,B
<u>Lesquerella gracilis</u> (Hook.) Wats. var. gracilis (lax bladderpod)	D	P
<u>Lesquerella recurvata</u> (Gray) Wats.	D	—
<u>Rorippa nasturtium-aquaticum</u> (L.) Hayek. (water-cress)	Sp	—
Crassulaceae (Orpine family)		
<u>Sedum nuttallianum</u> Raf. (yellow stonecrop)	T,S	—

	North Fork	Granger
Plantaginaceae (Plane-tree family)		
<u>Platanus occidentalis</u> L. (american sycamore)	R	R
Rosaceae (Rose family)		
<u>Crataegus brazoria</u> Sarg. (brazos hawthorne)	—	W
<u>Crataegus</u> sp. L.	W	W
<u>Prunus mexicana</u> Wats. (big-tree plum)	W,S,D	W
<u>Prunus serotina</u> Ehrh. (black cherry)	D	—
<u>Rubus trivialis</u> Mcx. (southern dewberry)	W,S	P,B,W
Leguminosae		
<u>Astragalus</u> sp. L. (loco weed)	T	B
<u>Cassia roemeriana</u> Scheele. (two-leaved senna)	T	—
<u>Cercis canadensis</u> L. var. <u>texensis</u> (Wats.) Rose (texas redbud)	S,D	—
<u>Eysenhardtia texana</u> Scheele (texas kidneywood)	U	—
<u>Indigofera miniata</u> Ort. (scarlet pea)	T	—
<u>Medicago lupulina</u> L. (black medic)	W	B,P
<u>Medicago minima</u> (L.) L. (small bur-clover)	S,U,D	—
<u>Medicago polymorpha</u> L. var. <u>vulgaris</u> (Benth.) Shinnars (bur-clover)	W	B
<u>Melilotus officinalis</u> (L.) Lam. (yellow sweet clover)	W	B,P
<u>Prosopis glandulosa</u> Torr. var. <u>glandulosa</u> (honey mesquite)	W	B,P
<u>Robinia</u> sp. L. (locust)	—	W
<u>Schrankia roemeriana</u> (Scheele) Blank (roemer sensitivebrier)	W	B,P
<u>Sesbania drummondii</u> (Rydb.) Cory (rattlebean)	—	W
<u>Sophora affinis</u> T.&G. (eve's necklace)	U	—
<u>Vicia ludoviciana</u> Nutt. (deer pea vetch)	W,S,D	B,P
Geraniaceae (Geranium family)		
<u>Erodium texanum</u> Gray. (stork's bill)	T,D	B,P,W
<u>Geranium carolinianum</u> L. (carolina cranesbill)	S,T,D	W,B
<u>Geranium texanum</u> (Trel.) Heller. (texas cranesbill)	—	B
Oxalidaceae (Wood-sorrel family)		
<u>Oxalis drummondii</u> Gray. (wood-sorrel)	S,T	—
<u>Oxalis dillenii</u> Jacq. (wood-sorrel)	S,T,D	B
Rutaceae (citrus family)		
<u>Ptelea trifoliata</u> L. (wafer-ash)	S,D,W	W
<u>Zanthoxylum clava-herculis</u> L. (hercules-club)	—	W

	North Fork	Granger
Meliaceae (Mahogany family)		
<u>Melia azedarach</u> L. (chinaberry tree)	—	B,W
Polygalaceae (milkwort family)		
<u>Polygala alba</u> Nutt. (white milkwort)	T,D	—
Euphorbiaceae (Spurge family)		
<u>Acalypha monococca</u> (Engelm.) L. Mill (copperleaf)	S	—
<u>Acalypha ostryaefolia</u> Ridd. (hophorn-beam copperleaf)	T	B,W
<u>Cnidosculus texanus</u> (muell. Arg.) Small. (texas bullnettle)	T,U	B,P
<u>Croton lindheimerianus</u> Scheele	T	P
<u>Croton monanthogynus</u> Michx. (prairie tea)	T,U	B
<u>Euphorbia bicolor</u> Engelm & Gray. (snow-on-the-prairie)	—	W
<u>Euphorbia nutans</u> Lag. (eyebane)	U	W
<u>Euphorbia spathulata</u> Lam.	—	B
<u>Euphorbia</u> sp.	T	B
<u>Stillingia texana</u> I.M. Johnst.	U	—
<u>Tragia</u> sp.	—	W
Anacardiaceae (Sumac family)		
<u>Rhus aromatica</u> Ait.var. <u>flabelliformis</u> Shinnars. (polecat bush)	W,S	—
<u>Rhus lanceolata</u> (Gray.) Britt. (flameleaf sumac)	W,T	—
<u>Rhus toxicodendron</u> L. (poison ivy)	W	W
<u>Rhus virens</u> Gray. (evergreen sumac)	S,U,D	—
Aquifoliaceae (Holly family)		
<u>Ilex decidua</u> Walt. (possumhaw)	W,S	W
Aceraceae (Maple family)		
<u>Acer negundo</u> L. (boxelder)	—	W
<u>Acer saccharinum</u> L. (creek maple)	—	W
Hippocastanaceae (Buckeye family)		
<u>Aesculus arguta</u> Buckl. (white buckeye)	S,D	—
Sapindaceae (Soapberry family)		
<u>Sapindus saponaria</u> var. <u>drummondii</u> (H.&A.) L. Benson. (western soapberry)	W,D,S	B,W
<u>Unonadias speciosa</u> Endl. (mexican buckeye)	S,D	—
Rhamnaceae (Buckthorn family)		
<u>Rhamnus caroliniana</u> Walt. (indian-cherry)	S,D	W

	North Fork	Granger
Vitaceae (Grape family)		
<u>Parthenocissus quinquefolia</u> (L.) Planch. (virginia creeper)	S,D	W
<u>Vitis berlandieri</u> Planch. (spanish grape)	S,D	—
<u>Vitis mustangensis</u> Buckl. (mustang grape)	—	W,B
<u>Vitis rupestris</u> Scheele. (sand grape)	S,D	—
Malvaceae (Mallow family)		
<u>Abutilon incanum</u> (Link.) Sweet. (indian mallow)	U,T	—
<u>Malva viscosa</u> Cav. var. <u>drummondii</u> (T.&G.) Schery (drummond waxmallow)	S,U,T,D	W
Violaceae (Violet family)		
<u>Viola missouriensis</u> Greene. (missouri violet)	—	W
<u>Viola pratincola</u> Greene. (violet)	—	W,B
Cactaceae		
<u>Echinocereus triglochidiatus</u> Engelm. (claret-cup)	U	—
<u>Opuntia lindheimeri</u> Engelm. (texas prickly pear)	U	—
<u>Opuntia macrorhiza</u> Engelm. (plains prickly pear)	U	—
<u>Opuntia phaeacantha</u> Engelm. (brownspine prickly pear)	S,U	P
Onagraceae (Evening primrose family)		
<u>Gaura brachycarpa</u> Small. (plains gaura)	—	B
<u>Gaura suffulta</u> Gray. (wild honeysuckle)	T	B
<u>Oenothera speciosa</u> Nutt. (showy primrose)	U,T	B,P
<u>Stenosiphon linifolius</u> (Nutt.) Heynh (false gaura)	S,D	B
Haloragaceae (Water-milfoil family)		
<u>Myriophyllum</u> spp. L. (water-milfoil)	R(ponds)	—
Umbelliferae (Parsely family)		
<u>Apium leptophyllum</u> (Pers.) F. Muell. (stimlobe celery)	—	W
<u>Cheerophyllum tainturieri</u> Hook. var. <u>dasycarpum</u> Wats. (hairyfruit chervil)	S,D	W
<u>Cheerophyllum tainturieri</u> var. <u>tainturieri</u>	S,D,T	W
<u>Cymopterus macrorhizus</u> Buckl. (bigroot wavewing)	T	B
<u>Daucus carota</u> L. (wild carrot)	—	W,B
<u>Daucus pusillus</u> Michx. (rattlesnake-weed)	S,U,T	W,B,P
<u>Eryngium leavenworthii</u> Torr. & Gray. (leavenworth eryngo)	T,W	B,P
<u>Hydrocotyle</u> sp. L. (water-pennywort)	R	—
<u>Torilis arvensis</u> (Huds.) Link. (hedge-parsley)	S,T,W	W,B,P

	North Fork	Granger
Cornaceae (Dogwood family)		
<u>Cornus drummondii</u> C.A. Mey. (rough leaf dogwood)	—	W
<u>Cornus foemina</u> Mill. (english dogwood)	W,S	W
<u>Garrya lindheimeri</u> Torr. (silk-tassel)	S,D	—
Primulaceae (Primrose family)		
<u>Samolus cuneatus</u> Small. (water-pimpernel)	D	—
Sapotaceae (Sapodilla family)		
<u>Bumelia lanuginosa</u> (Michx.) Pers. (ironwood)	S,W	W,B
Ebenaceae (Ebony family)		
<u>Diospyros texana</u> Scheele. (mexican persimmon)	S,U,W	—
Oleaceae (Olive family)		
<u>Forestiera pubescens</u> Nutt. (elbow-bush)	W,S,T,D	B,P
<u>Fraxinus pennsylvanica</u> Marsh. (red ash)	W,S	W
<u>Fraxinus texensis</u> (Gray.) Sarg. (texas ash)	S,D	—
<u>Menodora heterophylla</u> Moric. (low menodora)	S	B
Gentianaceae (Gentian family)		
<u>Centaurium calycosum</u> (Buckl.) Fern var. calycosum (rosita)	D	—
<u>Centaurium texense</u> (Griseb.) Fern. (lady bird's centaury)	S	P
Asclepiadaceae (Milkweed family)		
<u>Asclepias asperula</u> (Dcne.) Woods. (spider antelopehorn)	U,T	—
<u>Asclepias tuberosa</u> L. (butterfly milkweed)	T	B,P
<u>Metelea</u> sp. Aubl. (milkvine)	D,Sp	—
Convolvulaceae (Morning glory family)		
<u>Convolvulus equitans</u> Benth. (texas bindweed)	T	W,B
<u>Dichondra</u> sp. (ponyfoot)	—	B
<u>Ipomoea trichocarpa</u> Ell. (milkweed)	—	B,P
Polemoniaceae (Phlox family)		
<u>Ipomopsis rubra</u> (L.) Wherry (texas plume)	S	—
<u>Phlox pilosa</u> Michx. (downy phlox)	D	W,B

	North Fork	Granger
Hydrophyllaceae (waterleaf family)		
<u>Nema hispidum</u> Gray. (rough nama)	S,T	W
<u>Memphila phacelioides</u> Nutt. (baby blue-eyes)	W	W
<u>Phacelia congesta</u> Hook.	S,T	B,P
Boraginaceae (Borage family)		
<u>Heliotropium tenellum</u> (Nutt.) Torr. (pasture heliotrope)	S,D	—
<u>Heliotropium torreyi</u> I.M. Johnston. (slimleaf heliotrope)	W	—
Verbenaceae (Vervain family)		
<u>Aloysia gratissima</u> (Gill. & Hook.) Troncoso (white brush)	S,U,D	—
<u>Phyla incisa</u> Small. (texas frog-fruit)	T,W	B,P
<u>Verbena bipinnatifida</u> Nutt. (dakota vervain)	T,W,D	B,P
<u>Verbena halei</u> Small. (texas vervain)	T,W,D	B,P
<u>Verbena pumila</u> Rydb. (pink vervain)	T,D	B
<u>Verbena</u> sp.	T	—
Labiatae (Mint family)		
<u>Brazoria scutellarifoides</u> Engelm & Gray (prairie brazoria)	T	—
<u>Hedeoma drummondii</u> Benth.	S	P
<u>Hedeoma hispidum</u> Pursh. (mock pennyroyal)	W	B,P
<u>Lamium amplexicaule</u> L. (henbit)	T,D	B,P,W
<u>Marrubium vulgare</u> L. (common horehound)	S,T,D	P
<u>Mentha spicata</u> L. (spearmint)	Sp	—
<u>Monarda citriodora</u> Cerv. (lemon beebalm)	S,T	P
<u>Salvia farinacea</u> Benth. (mealy sage)	T,D	B,P
<u>Salvia roemeriana</u> Scheele. (cedar sage)	S,U	P
<u>Salvia</u> sp.	U	—
<u>Scutellaria drummondii</u> Benth. (drummond skullcap)	S,T	B,P
Solanaceae (Nightshade family)		
<u>Nicotiana glauca</u> Grah. (tree tobacco)	D	W
<u>Physalis angulata</u> L. (groundcherry)	T	W,B
<u>Physalis</u> sp.	T	—
<u>Solanum dimidiatum</u> Raf. (western horse-nettle)	T	B
<u>Solanum elaeagnifolium</u> Cav. (silver-leaf nightshade)	T	B,P
<u>Solanum rostratum</u> Dun. (buffalo bur)	T	B,P

	North Fork	Granger
Scrophulariaceae (Figwort family)		
<u>Castilleja purpurea</u> (Nutt.) G. Don (prairie paintbrush)	T	B,P
<u>Linaria texana</u> Scheele (texas toad-flax)	—	B
<u>Penstemon</u> sp. (beard-tongue)	D	—
<u>Verbascum thapsus</u> L. (flannel mullein)	S,U,T	B,P
Martyniaceae (Unicorn-plant family)		
<u>Proboscidea louisianica</u> (Mill.) Thell (common devil's claw)	T,W	—
Acanthaceae (Acanthus family)		
<u>Justicia americana</u> (L. Vahl. (american water-willow)	W	W
<u>Ruellia nudiflora</u> (Gray.) Urban.	T	W,B
<u>Ruellia occidentalis</u> (Gray.) Tharp. & Barkl.	S,U	—
Plantaginaceae (Plantain family)		
<u>Plantago patagonica</u> Jacq. (plantain)	W	B
<u>Plantago rhodosperma</u> Ocn. (red-seeded plantain)	S,U,D	W,B
<u>Plantago hookeriana</u> Fisch & Mey. (tallow weed)	D	W
Rubiaceae (Madden family)		
<u>Cephalanthus occidentalis</u> L. (common buttonbush)	D	B
<u>Galium aparine</u> L. (catchweed bedstraw)	T,W,D	W,B,P
<u>Galium circaeazans</u> Michx. (woods bedstraw)	W,D	—
<u>Galium virgatum</u> Nutt. (southwest bedstraw)	S,D	—
<u>Hedyotis acerosa</u> Gray. (needleleaf bluets)	U	—
<u>Hedyotis</u> sp. (bluets)	T	—
Caprifoliaceae (Honeysuckle family)		
<u>Sambucus canadensis</u> L. (common elder-berry)	D	—
<u>Viburnum rufidulum</u> Raf. (southern blackhaw)	S,D	W
Cucurbitaceae (Gourd family)		
<u>Cucurbita foetidissima</u> H.B.K. (buffalo-gourd)	T,D	W
<u>Ibervillea lindheimeri</u> (Gray.) Greene (lindheimer globeberry)	S,D	—
Campanulaceae (Bluebell family)		
<u>Trifodanis biflora</u> (R.&P.) Greene	T,D	P
<u>Trifodanis perfoliata</u> (L.) Nieuw. (venus' looking-glass)	T,W	B,P

North Fork

Granger

Compositae (Sunflower family)

<u>Ambrosia psilostachya</u> DC. (western ragweed)	—	B
<u>Ambrosia trifida</u> L. (giant ragweed)	T,D	W,B
<u>Aster eulae</u> Shinnars.	—	B
<u>Aster subulatus</u> Michx. (hierba del marrano)	D,W	W,B
<u>Aster texanus</u> Burgess. (texas aster)	S,T	W,P
<u>Baccharis neglecta</u> Britt. (roosevelt weed)	T,W	B,P
<u>Baccharis texana</u> (T.&G.) Gray (prairie baccharis)	T,D	W
<u>Bidens laevis</u> (L.) B.S.P. (smooth beggarticks)	—	—
<u>Calypocarpus vialis</u> Less. (hierba del caballo)	T	—
<u>Centaurea americana</u> Nutt. (baset-flower)	T	—
<u>Chaetopappa bellidifolia</u> (Gray & Engelm.) Shinnars. (leastdaisy)	S,T,D	—
<u>Chaetopappa effusa</u> (Gray.) Shinnars. (spreading leastdaisy)	U,T	—
<u>Chrysactinia mexicana</u> Gray (damianita)	U	—
<u>Cirsium texanum</u> Buckl. var. <u>texanum</u> (southern thistle)	T	B,P
<u>Cirsium undulatum</u> (Nutt.) Spreng.	T	—
<u>Conyza canadensis</u> (L.) Cronq. (horse-weed)	D	B
<u>Coreopsis basilis</u> (Otto & Dietr.) var. <u>wrightii</u> (Gray) Blake (rock coreopsis)	T	P
<u>Dracopis amplexicaulis</u> (Vahl.) Cass (coneflower)	T	B,P
<u>Engelmannia pinnatifida</u> Nutt. (engelmann daisy)	U,T	B
<u>Eupatorium havanense</u> H.B.K. (shrubby boneset)	U	—
<u>Evax candida</u> (T.&G.) Gray (silver rabbit-tobacco)	—	B
<u>Evax prolifera</u> DC. (bighead rabbit-tobacco)	T,D	—
<u>Gaillardia pulchella</u> Foug. (indian blanket)	S,T	P
<u>Gaillardia suavis</u> (Gray & Engelm.) Britt & Rusby.	T	—
<u>Gymnosperma glutinosa</u> (Spreng.) Less. (tatalenchd)	S,U	—
<u>Helenium amarum</u> (Raf.) Rock. (bitterweed)	T	B,P
<u>Helianthus annuus</u> L. (common sunflower)	T	B,P
<u>Hymenopappus scabiosaeus</u> L'Her. var. <u>corymbosus</u> (T.&G.) Turner (old plainsman)	T	B,P
<u>Iva angustifolia</u> D.C. (sump-weed)	T	—
<u>Krigia oppositifolia</u> Raf. (weedy dandelion)	—	B
<u>Lactuca ludoviciana</u> (Nutt.) Ridd. (wild lettuce)	T,D,W	W,B,P
<u>Hymenoxys scaposa</u> (DC.) Parker. var. <u>scaposa</u> (bitterweed)	T,D	B,P
<u>Liatris mucronata</u> DC. (gayfeather)	U	—
<u>Lygodesmia texana</u> (T.&G.) Greene (texas skeletonplant)	T,W	—
<u>Melampodium leucanthum</u> T.&G. var. <u>leucanthum</u> (plains blackfoot)	U,W	—
<u>Palafoxia callosa</u> (Nutt.) T.&G.	D	—
<u>Parthenium confertum</u> Gray.	T,D	W
<u>Parthenium hysterophorus</u> L. (false ragweed)	T	P
<u>Pinaropappus roseus</u> Less var. <u>roseus</u> (rocklettuce)	T	—

	North Fork	Granger
<u>Pyrrhopappus grandiflorus</u> (Nutt.) Nutt. (tuber false dandelion)	T	—
<u>Pyrrhopappus multicaulis</u> DC. (monystem false dandelion)	—	B,P
<u>Ratibida columnaris</u> (Sims) D. Don. (mexican hot)	T,W	W,B,P
<u>Rudbeckia hirta</u> L. (brown-eyed susan)	T,D	B,P
<u>Senecio imparipinnatus</u> Klatt (groundsel)	—	B
<u>Senecio obovatus</u> Muhl. (golden groundsel)	T	—
<u>Solidago radula</u> Nutt. (stiff goldenrod)	T	—
<u>Sonchus oleraceus</u> L. (common sow thistle)	T	B
<u>Taraxacum officinale</u> Wiggers (common dandelion)	S,W,D	W,B
<u>Thelesperma simplicifolium</u> Gray (slender greenthread)	U,W	—
<u>Verbesina lindeheimeri</u> Robins & Greenm. (lindeheimer crown-beard)	S	—
<u>Verbesina virginica</u> L. (frostweed)	T	W,B
<u>Vernonia lindheimeri</u> Gray & Engelm. (wooly ironweed)	T	B
<u>Xanthium strumarium</u> L. (cocklebur)	T	B

Appendix B: Macrobotanical Remains

Excavation of the San Gabriel archaeological sites involved the systematic collection of matrix samples for the flotation recovery of macrobotanical remains. Samples were collected from the northwest quad of each arbitrary 10 cm. level of every excavation unit. Additional samples were taken from all features. All matrix samples were processed; only those samples which contained plant remains are listed. All other samples were devoid of macrobotanical remains.

North Fork Reservoir

Site 41WM53

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
97N/130W NW $\frac{1}{4}$	4	<u>Quercus sp.</u>	acorn	1		X	X	
		<u>Verbena sp.</u>	seed	1	X			X
		<u>Euphorbia sp.</u>	seed	1	X			X
		<u>Portulaca sp.</u>	seeds	2	X			X
97N/130W NE $\frac{1}{4}$	5	Cheno-am	seed	1	X		X	
		Undetermined Disseminule	seed	1	X		X	
97N/130W Feature 6	6	<u>Echinocerus sp.</u>	seed	1	X		X	
97N/130W Feature 6	6	<u>Quercus sp.</u>	acorn	1		X	X	
		Undetermined Disseminule	seed	1	X		X	
Feature 6 X-Section	6	<u>Quercus sp.</u>	acorn	2		X	X	
98N/130W NE $\frac{1}{4}$		<u>Quercus sp.</u>	acorn			X	X	
99N/130W Feature 3 Area B	4	<u>Quercus sp.</u>	acorn	16		X	X	
		Cheno-am	seed	1	X		X	
		Undetermined Disseminule	seed	1		X	X	
		<u>Chenopodium sp.</u>	seed	1	X			X
Feature 9 West $\frac{1}{2}$		<u>Acalypha sp.</u>	seed	1	X			X
102N/127W Feature 4	2	<u>Aster sp.</u>	seed	1	X		X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
103N/127W Feature 4 NW $\frac{1}{4}$	2	<u>Acalypha sp.</u>	seeds	2	X			X
		<u>Euphorbia sp.</u>	seeds	2	X			X
Feature 4		<u>Quercus sp.</u>	acorn	2		X	X	
		<u>Euphorbia sp.</u>	seeds	2	X			X
		<u>Panicum sp.</u>	seeds	2	X			X
103N/127W Outside F-4	2	<u>Panicum sp.</u>	seeds	2	X			X
		<u>Euphorbia sp.</u>	seed	1	X		X	
		Undetermined Disseminule	seed	1	X		X	
Feature 4		<u>Quercus sp.</u>	acorn	7		X	X	
		<u>Verbena sp.</u>	seeds	2	X			X
103N/126W NW $\frac{1}{4}$	3	<u>Melilotus sp.</u>	seed	1	X			X
<u>Hawes Site (41WM56)</u>								
1041N/1106W Below F-2		<u>Quercus sp.</u>	acorn	1		X	X	
1042N/1105W NW $\frac{1}{4}$	9	Cheno-am	seed	1	X		X	
1042N/1106W NW $\frac{1}{4}$	2	<u>Quercus sp.</u>	acorn	7		X	X	
1045N/1092W NW $\frac{1}{4}$	5	<u>Chenopodium sp.</u>	seed	1	X			X
1049N/1112W NW $\frac{1}{4}$	2	<u>Acalypha sp.</u>	seeds	3	X			X
		<u>Euphorbia sp.</u>	seeds	3	X			X
		<u>Verbena sp.</u>	seed	1	X			X

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
1049N/1112W NW $\frac{1}{4}$	3	<u>Acalypha</u> sp.	seed	1	X			X
1050N/1111W NW $\frac{1}{4}$	3	<u>Quercus</u> sp.	acorn	1		X	X	
		<u>Chenopodium</u> sp.	seed	1	X			X
1050N/1111W NE $\frac{1}{4}$	7	<u>Juglans</u> sp.	nut-shell	1		X	X	
1060N/1099W NW $\frac{1}{4}$	5	<u>Quercus</u> sp.	acorn	1		X	X	
1061N/1097W NW $\frac{1}{4}$	4	<u>Opuntia</u> sp.	seed	1	X		X	
1061N/1098W NW $\frac{1}{4}$	9	<u>Carya</u> sp.	nut-shell	2		X	X	
1061N/1099W NW $\frac{1}{4}$	3	<u>Quercus</u> sp.	acorn	2		X	X	
1062N/1097W NW $\frac{1}{4}$	5	<u>Celtis</u> sp.	seed	1	X			X
1062N/1099W NW $\frac{1}{4}$	5	<u>Carya</u> sp.	nut-shell	2		X	X	
1062N/1099W Under F-5	6	<u>Chenopodium</u> sp.	seed	1	X		X	
1062N/1100W NW $\frac{1}{4}$	2	<u>Quercus</u> sp.	acorn	2		X	X	
		Cheno-am	seed	1	X		X	
1062N/1100W NW $\frac{1}{4}$	6	<u>Quercus</u> sp.	acorn	1		X	X	
		Undetermined Disseminule	seed	1	X		X	
1062N/1100W NW $\frac{1}{4}$	8	<u>Quercus</u> sp.	acorn	1		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
1063N/1097W NW $\frac{1}{4}$	3	<u>Juniperus sp.</u>	seed	1	X		X	
1063N/1098W NW $\frac{1}{4}$	6	<u>Opuntia sp.</u>	seed	1		X	X	
1063N/1099W NW $\frac{1}{4}$	6	<u>Opuntia sp.</u>	seed	1	X		X	
1063N/1100W NW $\frac{1}{4}$	3	<u>Opuntia sp.</u>	seed	1	X		X	
Feature 6								
Feature 6	3	<u>Opuntia sp.</u>	seeds	2	X		X	
Feature 6	4	<u>Opuntia sp.</u>	seeds	11	X		X	
		<u>Quercus sp.</u>	acorn	6		X	X	
		<u>Carya sp.</u>	nut-shell	7		X	X	
		Undetermined Disseminule	seed	1		X	X	
1063N/1100W NW $\frac{1}{4}$	4	<u>Opuntia sp.</u>	seeds	4	X		X	
Feature 6								
1063N/1100W NE $\frac{1}{4}$	4	<u>Amaranthus sp.</u>	seeds	4	X			X
Feature 6								
1063N/1100W SE $\frac{1}{4}$	4	<u>Opuntia sp.</u>	seed	1		X	X	
		Cheno-am	seed	1	X		X	
Feature 6								
1063N/1100W Feature 6	4	<u>Quercus sp.</u>	acorn	5		X	X	
1063N/1100W NW $\frac{1}{4}$	5	<u>Celtis sp.</u>	seed	1	X			X
		<u>Rudbeckia sp.</u>	seed	1	X			X
		<u>Silene sp.</u>	seed	1	X			X

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
Feature 6	5	<u>Opuntia sp.</u>	seeds	2	X		X	
		Cheno-am	seed	1	X		X	
1063N/1100W NW $\frac{1}{4}$	6	<u>Opuntia sp.</u>	seed	1		X	X	
1064N/1097W NW $\frac{1}{4}$	5	<u>Celtis sp.</u>	seed	1	X			X
1064N/1097W 1064N/1098W Feature 18	9	<u>Quercus sp.</u>	acorn	6		X	X	
1064N/1098W SE $\frac{1}{4}$	5	Cheno-am	seed	1		X	X	
Below F-9								
1064N/1100W NW $\frac{1}{4}$	6	<u>Quercus sp.</u>	acorn	2		X	X	
1064N/1100W NW $\frac{1}{4}$	7	<u>Quercus sp.</u>	acorn	3		X	X	
1064N/1100W NW $\frac{1}{4}$	7	Undetermined Disseminule	seed	1		X	X	
<u>Site 41WM56</u>								
Feature 5		<u>Juniperus sp.</u>	seed	1	X		X	
		<u>Chenopodium sp.</u>	seed	1	X			X
Feature 5 East $\frac{1}{2}$		<u>Quercus sp.</u>	acorn	2		X	X	
Feature 6 North X-Sec		<u>Celtis sp.</u>	seed	1	X			X
		<u>Quercus sp.</u>	acorn	1		X	X	
Feature 6 South X-Sec		<u>Amaranthus sp.</u>	seeds	3	X			X
1019N/1022W Outside F-6	6	<u>Quercus sp.</u>	acorn	6		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
1019N/1022W Below F-6	6	<u>Quercus sp.</u>	acorn	1		X	X	
		Undetermined Disseminule	seed	1	X		X	
1020N/1021W	6	<u>Quercus sp.</u>	acorn	4		X	X	
1020N/1021W Feature 7		<u>Quercus sp.</u>	acorn	3		X	X	
		<u>Carya sp.</u>	nut- shell	2		X	X	
1020N/1021W Around F-7		<u>Quercus sp.</u>	acorn	10		X	X	
		<u>Carya sp.</u>	nut- shell	3		X	X	
		<u>Celtis sp.</u>	seeds	2	X			X
		Undetermined Disseminule	seed	1		X	X	
1020N/1021W Below F-7		<u>Quercus sp.</u>	acorn	3		X	X	
1018N/1024W Feature 4	3	<u>Quercus sp.</u>	acorn	1		X	X	
		<u>Euphorbia sp.</u>	seed	1	X			X
1018N/1021W	3	<u>Celtis sp.</u>	seed	1	X			X
		<u>Amaranthus sp.</u>	seed	1	X			X
		<u>Euphorbia sp.</u>	seeds	2	X			X
1050N/1035W	4	<u>Quercus sp.</u>	acorn	4		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
<u>Site 41WM73</u>								
1039N/1034W NW $\frac{1}{4}$	2	<u>Quercus sp.</u>	acorn	14		X	X	
1040N/1048W NW $\frac{1}{4}$	16	<u>Quercus sp.</u>	acorn	6		X	X	
1040N/1048W NW $\frac{1}{4}$	17	<u>Quercus sp.</u>	acorn	11		X	X	
1040N/1048W NW $\frac{1}{4}$	18	<u>Quercus sp.</u>	acorn	7		X	X	
1040N/1048W NW $\frac{1}{4}$	19	<u>Quercus sp.</u>	acorn	5		X	X	
		<u>Chenopodium sp.</u>	seed	1	X			X
		Undetermined Disseminule	seed	1		X	X	
1040N/1049W NW $\frac{1}{4}$	14	<u>Quercus sp.</u>	acorn	7		X	X	
1040N/1049W NW $\frac{1}{4}$	15	<u>Quercus sp.</u>	acorn	6		X	X	
1040N/1049W NW $\frac{1}{4}$	16	<u>Quercus sp.</u>	acorn	4		X	X	
		<u>Celtis sp.</u>	seeds	2	X			X
1040N/1049W NW $\frac{1}{4}$	16	<u>Quercus sp.</u>	acorn	10		X	X	
1040N/1049W NW $\frac{1}{4}$	18	<u>Quercus sp.</u>	acorn	10		X	X	
		<u>Celtis sp.</u>	seed	1	X			X
1040N/1049W NW $\frac{1}{4}$	19	<u>Quercus sp.</u>	acorn	11		X	X	
		Undetermined Disseminules	seeds	2		X	X	
1040N/1050W NW $\frac{1}{4}$	17	<u>Quercus sp.</u>	acorn	3		X	X	
		Undetermined Disseminule	seed	1		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
1040N/1051W 1041N/1051W Feature 2	15	<u>Quercus sp.</u>	acorn	2		X	X	
1040N/1051W 1041N/1051W Feature 2	15	<u>Quercus sp.</u>	acorn	3		X	X	
1040N/1051W NW $\frac{1}{4}$	16	<u>Quercus sp.</u>	acorn	4		X	X	
1041N/1048W SE $\frac{1}{4}$	14	<u>Quercus sp.</u>	acorn	2		X	X	
1041N/1048W NW $\frac{1}{4}$	15	<u>Quercus sp.</u>	acorn	10		X	X	
		<u>Celtis sp.</u>	seeds	2	X			X
		Undetermined Disseminule	seed	1		X	X	
1041N/1048W NW $\frac{1}{4}$	16	<u>Quercus sp.</u>	acorn	10		X	X	
1041N/1048W SW $\frac{1}{4}$	16	<u>Quercus sp.</u>	acorn	14		X	X	
1041N/1048W NW $\frac{1}{4}$	17	<u>Quercus sp.</u>	acorn	3		X	X	
1041N/1048W Feature 3 North $\frac{1}{2}$	15	<u>Quercus sp.</u>	acorn	5		X	X	
		<u>Celtis sp.</u>	seeds	2	X			X
1041N/1048W Feature 3	16	<u>Quercus sp.</u>	acorn	10		X	X	
		Undetermined Disseminule	seed	1		X	X	
1040N/1048W Feature 3	17	<u>Quercus sp.</u>	acorn	11		X	X	
		Undetermined Disseminule	seed	1		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
1041N/1048W Feature 3	17	<u>Quercus sp.</u>	acorn	4		X	X	
1041N/1048W Feature 3 North $\frac{1}{2}$	17	<u>Quercus sp.</u>	acorn	7		X	X	
1041N/1049W NW $\frac{1}{4}$	11	<u>Quercus sp.</u>	acorn	2		X	X	
1041N/1049W NW $\frac{1}{4}$	14	<u>Quercus sp.</u>	acorn	4		X	X	
1041N/1049W NW $\frac{1}{4}$	16	<u>Quercus sp.</u>	acorn	7		X	X	
1041N/1049W NW $\frac{1}{4}$	17	<u>Quercus sp.</u>	acorn	4		X	X	
1041N/1049W NW $\frac{1}{4}$	18	<u>Quercus sp.</u>	acorn	17		X	X	
		<u>Celtis sp.</u>	seeds	2	X			X
1041N/1049W NW $\frac{1}{4}$	19	<u>Quercus sp.</u>	acorn	4		X	X	
1041N/1050W NW $\frac{1}{4}$	6	<u>Quercus sp.</u>	acorn	6		X	X	
1041N/1050W NW $\frac{1}{4}$	9	<u>Quercus sp.</u>	acorn	8		X	X	
1041N/1050W NW $\frac{1}{4}$	11	<u>Quercus sp.</u>	acorn	7		X	X	
		<u>Juniperus sp.</u>	seed	1	X			X
1041N/1050W NW $\frac{1}{4}$	16	<u>Quercus sp.</u>	acorn	7		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
1041N/1050W NW $\frac{1}{4}$	17	<u>Quercus sp.</u>	acorn	4		X	X	
		Undetermined Disseminules	seeds	2		X	X	
1041N/1049W NW $\frac{1}{4}$	17	<u>Quercus sp.</u>	acorn	4		X	X	
1041N/1049W NW $\frac{1}{4}$	18	<u>Quercus sp.</u>	acorn	17		X	X	
		<u>Celtis sp.</u>	seeds	2	X			X
1041N/1049W NW $\frac{1}{4}$	19	<u>Quercus sp.</u>	acorn	4		X	X	
1041N/1050W NW $\frac{1}{4}$	6	<u>Quercus sp.</u>	acorn	6		X	X	
1041N/1050W NW $\frac{1}{4}$	9	<u>Quercus sp.</u>	acorn	8		X	X	
1041N/1050W NW $\frac{1}{4}$	11	<u>Quercus sp.</u>	acorn	7		X	X	
		<u>Juniperus sp.</u>	seed	1	X			X
1041N/1050W NW $\frac{1}{4}$	16	<u>Quercus sp.</u>	acorn	7		X	X	
		<u>Juniperus sp.</u>	seed	1	X			X
1041N/1050W NW $\frac{1}{4}$	16	<u>Quercus sp.</u>	acorn	7		X	X	
1041N/1050W NW $\frac{1}{4}$	17	<u>Quercus sp.</u>	acorn	4		X	X	
		Undetermined Disseminules	seeds	2		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
<u>Site 41WM328</u>								
981N/1001W NW $\frac{1}{4}$	9	<u>Quercus</u> sp.	acorn	7		X	X	
981N/1001W NW $\frac{1}{4}$	17	<u>Quercus</u> sp.	acorn	8		X	X	
981N/1001W Feature 17	17	<u>Quercus</u> sp.	acorn	39		X	X	
		<u>Carya</u> sp.	nut-shell	5		X	X	
981N/1001W NW $\frac{1}{4}$	18	<u>Quercus</u> sp.	acorn	8		X	X	
		<u>Echinocerus</u> sp.	seed	1	X		X	
981N/1002W NW $\frac{1}{4}$	9	<u>Quercus</u> sp.	acorn	6		X	X	
		<u>Carya</u> sp.	nut-shell	5		X	X	
		<u>Echinocerus</u> sp.	seed	1	X		X	
981N/1002W NW $\frac{1}{4}$	17	<u>Quercus</u> sp.	acorn	4		X	X	
982N/1001W Feature 16	15	<u>Quercus</u> sp.	acorn	14		X	X	
982N/1001W NW $\frac{1}{4}$	18	<u>Quercus</u> sp.	acorn	7		X	X	
982N/1002W Feature 2 NW & SW	9-11	<u>Juglans</u> sp.	nut-shell	8		X	X	
		<u>Carya</u> sp.	nut-shell	7		X	X	
		<u>Quercus</u> sp.	acorn	75		X	X	
		Undetermined Disseminules	seeds	2		X	X	
		<u>Quercus</u> sp.	acorn	4		X	X	
982N/1002W NW $\frac{1}{4}$	16	<u>Quercus</u> sp.	acorn	4		X	X	
982N/1002W NW $\frac{1}{4}$	18	<u>Aster</u> sp.	seed	1	X		X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
982N/1002W NW $\frac{1}{4}$	19	<u>Quercus</u> sp.	acorn	4		X	X	
999N/1011W NW $\frac{1}{4}$	3	<u>Juglans</u> sp.	nut-shell	1		X	X	
999N/1011W Feature 6 SW $\frac{1}{4}$	3	<u>Carya</u> sp.	nut-shell	2		X	X	
		<u>Acalypha</u> sp.	seeds	3	X			X
999N/1012W NW $\frac{1}{4}$	3	<u>Acalypha</u> sp.	seed	1	X			X
		<u>Celtis</u> sp.	seed	1	X			X
Feature 11	3	<u>Acalypha</u> sp.	seeds	5	X			X
1000N/1012W NW $\frac{1}{4}$	3	<u>Carya</u> sp.	nut-shell	3		X	X	
		<u>Acalypha</u> sp.	seed	1	X			X
1000N/1018W NW $\frac{1}{4}$	5	<u>Quercus</u> sp.	acorn	2		X	X	
1001N/1010W SW $\frac{1}{4}$	2	<u>Acalypha</u> sp.	seeds	5	X			X
Feature 3	2	<u>Acalypha</u> sp.	seeds	6	X			X
1001N/1011W	3	<u>Panicum</u> sp.	seed	1	X		X	
Feature 3 SE $\frac{1}{4}$		<u>Quercus</u> sp.	acorn	3		X	X	
		<u>Acalypha</u> sp.	seeds	5	X			X
1001N/1012W	3	<u>Celtis</u> sp.	seeds	2	X			X
Feature 4		<u>Acalypha</u> sp.	seed	1	X			X
Feature 13		<u>Acalypha</u> sp.	seeds	6	X			X

Granger Reservoir

Bryan Fox Site (41WM124)

Unit/Quar	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
711N/833W	3	<u>Quercus sp.</u>	acorn	6		X	X	
813N/805W	5	<u>Amaranthus sp.</u>	seed	1	X			X
		<u>Euphorbia sp.</u>	seeds	4	X			X
801N/805W	12	Unidentified Gramineae Family	seed	1		X	X	
801N/804W	14	Unidentified Gramineae Family	seeds	2		X	X	
801N/804W	20	<u>Elymus sp.</u>	seed	1	X		X	
		Unidentified Gramineae Family	seed	1	X		X	
801N/804W	25	<u>Celtis sp.</u>	seed	1	X			X
		<u>Quercus sp.</u>	acorn	5		X	X	
		Unidentified Gramineae Family	seeds	2		X	X	
801N/804W	26	<u>Stipa sp.</u>	seeds	2	X	X	X	
		<u>Quercus sp.</u>	acorns	2		X	X	
		Unidentified Gramineae Family	seeds	9		X	X	
801N/804W	27	Unidentified Gramineae Family	seeds	3		X	X	
801N/804W	27	Unidentified Gramineae Family	seeds	3		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
801N/803W	6	<u>Oxalis</u> sp.	seed	1	X			X
801N/803W	10	Cheno-am	seed	1	X		X	
		Unidentified Gramineae Family	seed	1		X	X	
801N/803W	11	Undetermined Dissemminules	seeds	3		X	X	
801N/803W Feature 1	19	<u>Celtis</u> sp.	seeds	3	X			X
801N/803W	23	<u>Celtis</u> sp.	seed	1	X			X
801N/803W	25	<u>Elymus</u> sp.	seed	1	X		X	
		<u>Quercus</u> sp.	acorn	4		X	X	
801N/803W	28	Unidentified Gramineae Family	seeds	2		X	X	
801N/803W	30	<u>Elymus</u> sp.	seed	1	X		X	

In addition to these plant remains recovered by flotation, 801N/803W level 27 yielded 8 charred Quercus sp. acorn remains including 2 complete kernels, and level 28 contained 51 acorn fragments including 12 corn kernels. These acorns were recovered by standard excavation procedures.

Loeve-Fox Site (41WM230)

1014N/1000W XU3 F-31	f111	<u>Elymus</u> sp.	seeds	3		X	X	
1028N/996W XU3 F-40	f111	<u>Astragalus</u> sp.	seed	1	X		X	
		<u>Quercus</u> sp.	acorn	2		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
1028N/996W XU3 F-40	8	<u>Panicum sp.</u>	seeds	2	X		X	
		<u>Zizania sp.</u>	seed	1		X		
		<u>Rumex sp.</u>	seed	1	X		X	
		<u>Euphorbia sp.</u>	seed	1	X		X	
		<u>Vitis sp.</u>	seed	1	X		X	
		<u>Panicum sp.</u>	seeds	2	X		X	
1028N/996W XU3 F-40	9	Undetermined Disseminules	seeds	3	X		X	
		Undetermined Disseminule	seed	1	X		X	
1028N/996W XU3 F-40	10	Undetermined Disseminule	seed	1	X		X	
1030N/1002W XU3 F-42 NE Cell	6	<u>Panicum sp.</u>	seeds	6	X			X
1030N/998W XU3 F-45	6	<u>Rumex sp.</u>	seeds	2	X		X	
1022N/998W XU3 F-48 SW Cell	7	<u>Carya sp.</u>	nut-shell	1		X	X	
1022N/998W XU3 F-51 SW Cell	10	<u>Elymus sp.</u>	seed	1	X		X	
1020N/996W XU3 F-64 NE & SE Cell	9	<u>Elymus sp.</u>	seeds	3	X	X	X	
1024N/998W XU3 F-67 SE Cell	11	<u>Phytolacca sp.</u>	seed	1	X			X
		<u>Panicum sp.</u>	seed	1	X		X	
		<u>Ampelopsis sp.</u>	seed	1	X		X	
		<u>Helianthus sp.</u>	seeds	2		X	X	
1022N/1000W XU3 F-69 SE Cell	11	<u>Celtis sp.</u>	seed	1	X			X

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
1020N/1000W XU3 F-69 NE Cell	11	<u>Rumex</u> sp.	seed	1	X		X	
1020N/1000W XU3 F-69 NE Cell	12	<u>Phytolacca</u> sp.	seed	1		X	X	
1016N/998W XU3 F-70 NW Cell	17	<u>Quercus</u> sp.	acorn	4		X	X	
1016N/998W XU3 F-70 NW Cell	18	<u>Quercus</u> sp.	acorn	9		X	X	
1016N/998W XU3 F-70 NW CELL	19	<u>Quercus</u> sp.	acorn	4		X	X	
1016N/998W XU3 F-70 Pedestal		<u>Elymus</u> sp.	seeds	2		X	X	
		<u>Quercus</u> sp.	acorn	10		X	X	
1024N/998W XU3 F-71 NE Cell	10	Unidentified Gramineae Family	seed	1		X	X	
1020N/1002W XU3 F-83 NW Cell	12	<u>Quercus</u> sp.	acorn	2		X	X	
1016N/998W XU3 F-102 SE Cell	23	<u>Astragalus</u> sp.	seed	1	X		X	
		<u>Elymus</u> sp.	seed	1	X		X	
1049N/970W XU7 F-47 NW Cell	5	<u>Celtis</u> sp.	seed	1	X		X	
1049N/970W XU7 F-49 SE Cell	7	<u>Quercus</u> sp.	acorn	1		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
1049N/970W XU7 F-49 SW Cell	8	<u>Quercus</u> sp. Undetermined Disseminule	acorn seed	1 1		X X	X X	
1049N/970W XU7 F-49 SE Cell	8	<u>Stipa</u> sp.	seed	1		X	X	
998N/1012W XU7 F-54 NE Cell	7	<u>Rumex</u> sp. Unidentified Gramineae Family	seeds seed	2 1	X X		X X	
1032N/936W XU5 F-72 SW Cell	9	Unidentified Gramineae Family	seeds	6		X	X	
1032N/936W XU5 F-88 SW Cell	8	Unidentified Gramineae Family	seeds	4		X	X	
1032N/936W XU5 F-88 SW Cell		<u>Elymus</u> sp.	seed	1	X		X	
1000N/1012W XU1 F-56 NW Cell	8	<u>Euphorbia</u> sp. <u>Panicum</u> sp.	seed seed	1 1	X			X
998N/1012W XU1 F-89 NW Cell	7	Unidentified Gramineae Family	seeds	2	X	X	X	
998N/1012W XU1 F-89 NW Cell	9	<u>Stipa</u> sp.	seed	1		X	X	
988N/998W BHT 2 Feature 100	99.08M	<u>Ambrosia</u> sp. Unidentified Gramineae Family	seed seeds	1 2	X		X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
998N/1001.5 BHT 2 Feature 104	99.25M	<u>Elymus sp.</u>	seed	1		X	X	
986.5N/1006 BHT 2 Feature 106	99.4M	<u>Stipa sp.</u>	seed	1	X		X	
<u>Bigon-Kubala Site (41WM258)</u>								
976N/956W	2	Unidentified Gramineae Family	seed	1		X	X	
976N/956W	5	<u>Quercus sp.</u>	acorn	2		X	X	
976N/956W	6	<u>Quercus sp.</u>	acorn	10		X	X	
976N/956W	8	<u>Quercus sp.</u>	acorn	1		X	X	
976N/956W	9	<u>Sporobolus sp.</u>	seeds	4	X		X	
976N/956W	10	<u>Stipa sp.</u>	seed	1	X		X	
976N/956W	11	<u>Quercus sp.</u>	acorn	2		X	X	
976N/956W	12	<u>Quercus sp.</u>	acorn	3		X	X	
		Undetermined Disseminule	seed	1	X		X	
976N/956W	14	<u>Sporobolus sp.</u>	seeds	2	X		X	
976N/973W	6	<u>Carya sp.</u>	nut- shell	1		X	X	
976N/973W	8	Unidentified Gramineae Family	seed	1	X		X	
976N/999W	12	<u>Panicum sp.</u>	seed	1	X		X	
975N/973W	4	<u>Quercus sp.</u>	acorn	2		X	X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
975N/973W	5	<u>Carya</u> sp.	nut-shell	3		X	X	
		<u>Quercus</u> sp.	acorn	2		X	X	
		<u>Helianthus</u> sp.	seeds	3	X		X	
		Unidentified Gramineae Family	seed	1		X	X	
976N/1000W	7	Unidentified Gramineae Family	seeds	2		X	X	
975N/972W	5	<u>Helianthus</u> sp.	seeds	3		X	X	

Cervenka Site (41WM267)

1000N/989W Feature 8	28	<u>Amaranthus</u> sp.	seed	1	X			X
1000N/990W Under metate in F-5	20	Cheno-am	seed	1	X		X	
1001N/989W NW $\frac{1}{4}$	7	<u>Sporobolus</u> sp.	seeds	2		X	X	
1001N/989W NW $\frac{1}{4}$	8	<u>Amaranthus</u> sp.	seed	1	X			X
1017N/985W NW $\frac{1}{4}$	8	Unidentified Gramineae Family	seed	1		X	X	
1017N/986W NW $\frac{1}{4}$	9	<u>Paspalum</u> sp.	seed	1	X		X	
1018N/986 NW $\frac{1}{4}$	4	<u>Rumex</u> sp.	seed	1	X		X	

Unit/Quad	Level	Taxon	Plant Part	Number Recovered	Whole	Fragment	Charred	Contaminant
1018N/986W NW $\frac{1}{4}$	10	Unidentified Gramineae Family	seed	1		X	X	
1018N/987W NW $\frac{1}{4}$	22	<u>Ambrosia</u> sp.	seed	1	X			X
1058N/987.5 NW $\frac{1}{4}$	61/62	<u>Helianthus</u> sp.	seed	1		X	X	

Appendix C: Vertebrate Fauna Data

The following appendix provides numerical data for osteological remains recovered from each excavation area of each investigated site. These bone counts served as the basis for enumerating the total amount of vertebrate faunal material from a given cultural component and were used to give an indication of (1) density of occupation (number of bone fragments per cubic meter), (2) intensity of occupation (amount of burned bone and total bone, (3) the relationship of preservation/fragmentation factors on the percentage of species identifiable bone.

The tables are designed to present maximum numerical information. For each level, the number of burned fragments, unburned fragments and fragments associated with feature material are combined to yield the total number of bone fragments recovered from that level. Then a component total is calculated by combining the level totals from levels designated as a contiguous cultural component. The data at the bottom left portion of the tables present the total bone recovered from the excavation area including the total feature bone and identified material. Data that exclusively concern the identified material are given on the right portion of the table as it has been summarized for each cultural component. The last column indicates the percentage identified of the component total and lastly, the percentage identified of the total bone recovered.

Legend

Lv.	arbitrary excavation level
#B	number of burned fragments
#UB	number of unburned fragments
T.B.R.	total bone recovered
}	indicates combined levels

SITE 41W53

AREA A

TOTAL BONE RECOVERED *
(Includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Austin	1	15	23	-	38		5	13	-	18	6
"	2	71	186	-	257	295					
Austin/Twin Sisters	3	188	318	-	506		11	32	-	43	5
"	4	131	231	5	367	873					
Twin Sisters	5	29	33	194	256						
"	6	39	28	-	67						
"	7	25	23	-	48		0	1	3	4	1
"	8	9	12	-	21	392					
"	9	-	-	-	-						
Sub-Total w/o Feature		507	854	-			16	46	-		
Feature Total		81	118	199			1	2	3		
T.B.R.*		588	972		1560		17	48		65	4

SITE 41W53

AREA C

TOTAL BONE RECOVERED *
(Includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Unknown	1	2	1	-	3		-	1		1	25
"	2	-	1	-	1	4					
Twin Sisters	3	10	18	-	28						
"	4	1	2	-	3						
"	5	1	-	-	1		-	1		1	1
"	6	1	23	-	24						
"	7	6	4	-	10						
"	8	4	1	-	5						
"	9	-	2	-	2	73					
Sub-Total w/o Feature		25	52				-	2			
Feature Total		-	-	-			-	-	-		
T.B.R.*		25	57		77		-	2		2	2.5

SITE 41W53

AREA B

TOTAL BONE RECOVERED *
(Includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
	1	-	-	-	-		-	-	-	-	
	2	-	-	-	-		-	-	-	-	
	3	-	-	-	-		-	-	-	-	
Austin	4	17	23	44	84		1	2	3	6	1.9
"	5	60	64	101	225	309					
Austin/Twin Sisters	6	38	27	-	65		1	3		4	3
"	7	26	28	-	54	119					
Twin Sisters	8	13	13	3	29		3	6		9	31
"	9	-	-	-	-	29					
Sub-Total w/o Feature		154	155				5	11			
Feature Total		70	78	148			-	3	3		
T.B.R.*		224	233		457		5	14		19	4

SITE 41W56

AREA A

TOTAL BONE RECOVERED *
(Includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Twin Sisters	1	4	13	-	17						
"	2	30	58	-	88		8	19	3	30	4.4
"	3	175	360	40	575	680					
San Marcos Round Rock	4	122	137	-	559	559	6	34		40	7
San Geronimo	5	63	241	-	304						
"	6	35	147	-	182						
"	7	42	211	-	253		10	64		74	8
"	8	31	61	-	92						
"	9	4	2	-	6	837					
Sub-Total w/o Feature		506	1530				24	117			
Feature Total		7	33	40			1	2	3		
T.B.R.*		513	1563		2076		25	119		144	7

SITE 41NM56

AREA B

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
Unknown	1	63	98	-	161		9	37	-	46	9
"	2	95	230	-	325	486					
San Marcos Round Rock	3	131	449	-	580	580	10	62	-	72	12
"	4	128	379	142	649		12	92	26	130	14
"	5	80	217	-	297	946					
Round Rock Clear Fork Transition	6	58	245	-	303		5	54	-	59	12
"	7	60	113	-	173	476					
Clear Fork	8	43	96	-	139						
"	9	19	83	-	102		4	26	-	30	11
"	10	8	25	-	33						
"	11	3	2	-	5	279					
Sub-Total w/o Feature		688	1937				40	271			
Feature Total		21	121	142			3	23	26		
T.B.R.*		709	2058		2767		43	294		337	12

SITE 41NM56

AREA C

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
Unknown	1	158	164	-	322		9	64		73	
"	2	1703	2783	-	4486		102	388		490	
"	3	1366	2379	764	4509		90	354	46	490	
"	4	818	1544	-	2462	11779	32	116		148	10
Round Rock	5	621	1463	14	2098	2098	53	200	7	260	12
Clear Fork	6	397	1010	-	1407						
"	7	591	1069	42	1702		50	607	31	788	12
"	8	755	1284	32	2071						
"	9	424	802	218	1444	6624					
San Geronimo	10	291	540	-	831						
"	11	103	134	-	237						
"	12	45	86	1	132		32	103	-	135	11
"	13	1	1	-	2						
"	14	-	-	-	-						
"	15	-	-	-	-						
"	16	-	-	-	-						
"	17	1	0	-	1	1203					
Sub-Total w/o Feature		7274	13359				468	1832			
Feature Total		245	826	1071			5	79	84		
T.B.R.*		7519	14185		21704		473	1911		2384	

SITE 41W56

AREA D

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Mixed	1	19	28	-	47						
"	2	113	272	-	385		12	84		96	10
"	3	151	349	-	500	932					
San Marcos Round Rock	4	93	392	-	485						
"	5	60	270	-	330		8	131	5	144	13
"	6	33	191	49	273	1088					
Unknown	7	33	99	-	132	132	4	23		27	20
Clear Fork	8	10	86	1	97		1	29		30	21
"	9	2	42	-	44	141					
San Geronimo	10	-	1	-	1						
"	11	-	-	-	-		-	-		-	
"	12	1	2	-	3	4					
"	13	-	1	-	1	1					
Sub-Total w/o Feature		515	1733				25	267			
Feature Total		8	42	50			-	5	5		
T.B.R.*		523	1775		2298		25	272		297	13

SITE 41W56

AREA E

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Mixed	1	8	20	-	28		10	24	-	34	8
"	2	154	224	-	378	406					
Round Rock	3	111	208	-	319	319	5	23	-	28	9
Clear Fork	4	106	222	-	328						
"	5	51	110	-	161		27	94	-	121	15
"	6	55	237	-	292	781					
San Geronimo	7	82	188	29	299						
"	8	66	202	-	268		9	107	5	121	17
"	9	27	91	-	118						
"	10	3	12	-	15	700					
Sub-Total w/o Feature		663	1514				51	248			
Feature Total		9	20	29			2	3	5		
T.B.R.*		672	1534		2206		53	251		304	14

SITE 41W56

AREA F (XU-5)

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Twin Sisters	1	15	44	-	59						
"	2	58	80	-	138		6	30	7	43	9.6
"	3	64	124	61	249	446					
Unknown	4	23	57	-	80		-	5	-	5	
"	5	2	33	-	35	115					4
San Marcos	6	11	39	-	50		-	1	-	1	
"	7	-	-	-	-	50					2
Sub-Total w/o Feature		173	377				6	36			
Feature Total		12	49	61			3	4	7		
T.B.R.*		185	426		611		9	40		43	

SITE 41W57

AREA A

TOTAL BONE RECOVERED *
(Includes Identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	SID
Plow Zone	1	6	7	-	13		-	-			
"	2	18	34	-	52	65					
Round Rock, San Marcos	3	24	76	-	100		1	3		4	1
"	4	13	25	-	38	138					
Unknown	5	4	4	-	8	8	-	-			
Sub-Total w/o Feature		65	146				1	3			
Feature Total		-	-	-			-	-	-		
T.B.R.*		65	146		211		1	3		4	

SITE 41W57

AREA C

TOTAL BONE RECOVERED *
(Includes Identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	SID
Plow Zone	1	-	-	-	-						
"	2	10	18	-	28		3	8		11	8
"	3	26	109	-	135	163					
Round Rock, San Marcos	4	15	68	-	83		2	9		11	9
"	5	11	36	-	47	130					
Sub-Total w/o Feature		62	231				5	17			
Feature Total		-	-	-			-	-	-		
T.B.R.*		62	231		293		5	17		22	8.5

SITE 41W57

AREA B

Plow Zone	1	1	-	-	1		-	-			
"	2	7	7	-	14	15					
Round Rock, San Marcos	3	24	34	-	58						
"	4	11	15	-	26		-	7		7	8
"	5	3	2	-	5	89					
Unknown	6	-	-	-	-		-	-			
"	7	3	1		4	4					
Sub-Total w/o Feature		49	59				-	7			
Feature Total		-	-	-			-	-	-		
T.B.R.*		49	59		108		-	7		7	

SITE 41W57

AREA D

Plow Zone	1	-	-	-	-		-	-			
"	2	-	-	-	-						
Round Rock	3	14	63	-	77						
"	4	3	28	-	31		-	15		15	
"	5	3	4	-	7						
"	6	1	2	-	3						
Sub-Total w/o Feature		21	97				-	15			
Feature Total		-	-	-			-	-	-		
T.B.R.*		21	97		118		-	15		15	13

SITE 41WMS7

AREA E

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
Plow Zone	1	2	-	-	2	2	-	-	-	-	
Round Rock	2	28	30	-	58		-	9	-	9	7
"	3	21	46	-	67	125					
Clear Fork	4	20	35	67	123						
"	5	9	17	-	26		1	13	3	17	8
"	6	13	39	-	52	201					
Sub-Total w/o Feature	93	168					1	22			
Feature Total		29	38	67			-	3	3		
T.B.R.*		122	206		328		1	25		26	8

SITE 41WMS7

AREA I

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
Round Rock San Marcos	1	1	13	-	14		-	1	-	1	3.7
"	2	1	6	-	7						
"	3	2	4	-	6						
Sub-Total w/o Feature	4	23					-	1			
Feature Total		-	-	-			-	-	-		
T.B.R.*		4	23		27		-	1		1	3.7

SITE 41WMS7

AREA J

SITE 41WMS7

AREA F

Unknown	1	-	-	-							
"	2	5	6	-	11	11	-	-	-	-	
Round Rock San Marcos	3	1	14	-	15						
"	4	7	18	-	25		-	2		2	3
"	5	7	19	-	26						
"	6	-	1	-	1	67					
Unknown	7	-	4	-	4	4	-	-	-	-	
Sub-Total w/o Feature	20	62					-	2			
Feature Total		-	-	-			-	-	-		
T.B.R.*		20	62		82		-	2		2	2

Round Rock San Marcos	1	-	-	-							
"	2	-	1	-	1					No Identified	
Sub-Total w/o Feature	-	1					-	-			
Feature Total		-	-	-			-	-	-		
T.B.R.*		-	1		1		-	-		-	

SITE 41M73

AREA A

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
San Marcos	1	3	1	-	4						
"	2	17	47	-	64						
"	3	3	1	-	4		5	8		13	6
"	4	23	5	-	28						
"	5	47	54	-	101	201					
Round Rock	6	42	31	-	73						
"	7	15	21	4	40		2	2	1	5	3
"	8	11	29	-	40						
"	9	-	4	-	4	157					
Sub-Total (w/o Feature)		161	193				7	10			
Feature Total		2	2	4			-	1	1		
T.B.R.*		163	195		358		7	11		18	5

SITE 41M73

AREA B

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Round Rock	1	4	4	-	8						
"	1-9	-	3		3						
"	2	22	44		66						
"	3	25	37	-	62						
"	4	11	18	-	29						
"	5	91	171	-	262						
"	6	23	18	-	41		30	264	36	430	18
"	7	17	55	-	72						
"	8	21	26	-	47						
"	9	25	44	-	69						
"	10	95	129	-	224						
"	11	128	237	-	365						
"	12	231	273	-	504						
"	13	164	211	-	375						
"	14	27	80	171	278	2405					
Mixed Zone	13	24	24	-	48						
"	14	87	127	-	214		51	93	2	146	22
"	15	118	274	16	408	670					
Round Rock, Clear Fork	13	72	115	-	187						
"	14	196	341	-	537		535	533	-	868	25
"	15	328	361	-	689						
"	16	430	650	-	1080						
"	17	452	543	-	995	3488					
(Continued -- next page)											

SITE 41W73

AREA B (Continued)

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
Clear Fork	18	222	313	-	535						
"	19	117	178	-	295		62	143	-	205	24
"	20	2	2	-	4						
"	21	1	2	-	3	837					
Sub-total (w/o Feature)		2933	4280				578	1033			
Feature Total		106	81	187			15	23	38		
T.B.R.*		3039	4361		7400		593	1056		1649	22

SITE 41W73

AREA C

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
Round Rock	1	2	-	-	2						
"	2	11	6	-	17						
"	3	15	20	-	35						
"	4	6	3	-	9						
"	5	29	32	-	61		11	26	-	37	11
"	6	31	17	-	48						
"	7	7	9	-	16						
"	8	8	7	-	15						
"	9	27	102	-	129	332					
Clear Fork	10	19	36	-	55						
"	11	17	16	-	33		4	7	-	11	11
"	12	1	-	-	1						
"	13	6	5	-	11	100					
Sub-total (w/o Feature)		179	253				15	33			
Feature Total		-	-	-			-	-	-		
T.B.R.*		179	253		432		15	33		48	11

SITE 41M73

AREA D

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Round Rock	1	-	-	-	-						
"	2	3	1	-	4		1	2		3	60
"	3	-	-	-	-						
"	4	-	1	-	1	5					
Unknown	5	-	-	-	-						
"	6	-	-	-	-						
"	7	-	1	-	1	1					
Sub-Total (w/o Feature)	3	3					1	2			
Feature Total		-	-	-			-	-	-		
T.B.R.*	3	3			6		1	2		3	50

SITE 41M73

AREA E

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
San Marcos	1	-	1	-	1		-	1	-	1	11
"	2	5	3	-	8	9					
Round Rock	3	1	5	-	6						
"	4	3	38	-	41						
"	5	3	45	-	48						
"	6	7	47	-	54						
"	7	9	61	-	70						
"	8	13	33	-	46		7	41	-	48	11
"	9	15	120	-	135						
"	10	8	15	-	23						
"	11	5	12	-	17						
"	12	1	5	-	6	446					
Sub-Total (w/o Feature)	70	385					7	42			
Feature Total		-	-	-			-	-	-		
T.B.R.*	70	385			455		7	42		49	11

SITE 41WM138

AREA XU-5

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
	1	-	2	-	2		-	1	-	1	
	2	19	54	-	73		-	2	-	2	
	3	10	2	7	19		1	-	-	1	
	4	4	3	-	7		-	-	-	-	
	5	27	32	-	59		3	3	-	6	
	6	2	5	1	8		1	-	-	1	
	7	-	1	2	3		-	-	-	-	
	8	-	-	-	-		-	-	-	-	
	9	-	-	-	-		-	-	-	-	
	10	-	-	-	-		-	-	-	-	
	11	-	-	-	-		-	-	-	-	
	12	1	-	-	1		-	2	-	2	
	13	2	2	-	4		-	2	-	2	
Sub-total (w/o Feature Total)	65	101					5	10			
Feature Total	-	-	10				-	-	-		
T.B.R.*	65	111			176		5	10		15	8.5

SITE 41WM304

AREA A

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Round Rock	1	-	-	-	-		-	-	-	-	
"	2	3	10	-	13		-	2	-	2	11
"	3	1	-	-	1		-	-	-	-	
"	4	1	3	-	4	18	-	-	-	-	
Clear Fork	5	-	2	-	2		-	-	-	-	
"	6	3	5	-	8		2	2	-	4	4
"	7	22	32	-	54	64	-	-	-	-	
Pre Hidden	8	16	5	-	21		-	-	-	-	
"	9	6	3	-	9	30	-	-	-	-	
Sub-Total (w/o Feature)	52	60					2	4			
Feature Total	-	-	-	-	-		-	-	-	-	
T.B.R.*	52	60			112		2	4		6	5

SITE 41WM304

AREA XU-2

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Clear Fork	1	-	22	-	22		-	-	-	-	
"	2	-	-	-	-		-	-	-	-	
"	3	-	3	-	3		-	19	-	19	25
"	4	6	6	-	12		-	-	-	-	
"	5	4	5	-	9		-	-	-	-	
"	6	15	15	-	30	76	-	-	-	-	
Pre Hidden	7	21	13	-	34		-	-	-	-	
"	8	14	7	-	21		3	2	-	5	7
"	9	11	2	-	13	68	-	-	-	-	
Sub-Total (w/o Feature)	71	73					3	21			
Feature Total	-	-	-	-	-		-	-	-	-	
T.B.R.*	71				144		3	21		24	17

SITE 41M328

AREA A

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
?	1	1	2	8	11	11	-	-	-	-	
Twin Sisters	2	27	13	2	42						
"	3	40	27	25	92						
"	4	50	36	15	101		13	7	2	22	
"	5	30	29	-	59						
"	6	14	5	-	19						
"	7	1	1	-	2	315					
Sub-Total (w/o Feature)		163	113				13	7			
Feature Total		35	15	50			2	-	2		
T.B.R.*		198	128		326		15	7		22	

SITE 41M328

AREA B

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Unknown	1	-	-	-	-						
"	2	-	-	-	-						
"	3	-	-	-	-						
"	4	3	1	-	4		-	1	-	1	25
"	5	-	-	-	-						
"	6	-	-	-	-						
"	7	-	-	-	-	4					
Austin	8	2	3	-	5						
"	9	22	24	-	46		2	6	-	8	8
"	10	24	21	-	45	96					
"	11	-	-	-	-						
"	12	-	-	-	-						
"	13	-	-	-	-						
Twin Sisters	14	33	8	-	41						
"	15	15	4	24	43						
"	16	28	3	-	31						
"	17	66	-	22	88						
"	18	121	3	-	124		24	1	3	28	7
"	19	40	4	-	44						
"	20	2	1	-	3						
"	21	14	2	-	16	390					
Sub-Total (w/o Feature)		370	74				26	8			
Feature Total		43	3	46			2	1	3		
T.B.R.*		413	77		490		28	9		37	

SITE 41WM404

AREA A

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
	1	-	1	-	1		-	-		-	
	2	2	12	-	14		-	2		2	
	3	-	-	-	-		-	-		-	
	4	11	7	-	18		-	4		4	
	5	5	6	-	11		-	3		3	
	6	14	11	-	25		-	2		2	
	7	2	10	-	12		-	1		1	
	8	7	-	-	7		-	-		-	
	9	2	1	-	3		-	1		1	
	10	1	1	-	2		-	-		-	
Sub-Total (w/o Feature)		44	49				-	13			
Feature Total		-	-	-			-	-	-		
T.B.R.*		44	49		93		-	13		13	

SITE 41WM404

AREA B

	1	2	4	-	6		-	2		2	
	2	15	13	-	28		-	3		3	
	3	25	23	-	53		-	6		6	
	4	13	17	-	30		-	6		6	
	5	5	3	-	8		-	-		-	
	6	9	4	-	13		1	2		3	
	7	4	5	-	9		1	-		1	
	8	3	3	-	6		-	-		-	
Sub-Total (w/o Feature)		76	77				2	19			
Feature Total		-	-	-			-	-	-		
T.B.R.*		76	77		153		2	19		21	

SITE 41WM404

AREA C

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
	1	1	2	-	3		-	1		1	
	2	5	4	-	9		1	1		2	
	3	12	31	-	43		1	11		12	
	4	17	26	-	43		1	4		5	
	5	13	51	-	64		3	3		6	
	6	8	92	-	100		-	37		37	
	7	1	-	-	1		-	-		-	
	8	-	3	-	3		-	-		-	
Sub-total (w/o Feature)		57	209				6	57			
Feature Total		-	-	-			-	-	-		
T.B.R.		57	209		266		6	57		63	

SITE 41WM404

AREA D

	1	-	9	-	9		-	6		6	
	2	29	25	-	54		-	3		3	
	3	89	87	-	176		3	13		16	
	4	140	37	-	177		6	2		8	
	5	14	5	-	19		-	1		1	
Sub-total (w/o Feature)		272	163				9	25			
Feature Total		-	-	-			-	-	-		
T.B.R.		272	163		435		9	25		34	

SITE 41WPM04

AREA E

TOTAL BONE RECOVERED *
(Includes Identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
	1	7	9	-	16		1	2		3	
	2										
	3	77	11	-	88		5	1		6	
	4	7	-	-	7		-	-		-	
	5	1	-	-	1		1	-		1	
	6	15	5	-	20		1	1		2	
	7	5	9	-	14		-	1		1	
	8	1	-	-	1		-	-		-	
	9	-	1	-	1		-	-		-	
Sub-total (w/o Feature)	113	35					8	5			
Feature Total	-	-	-	-	-		-	-	-	-	
T.B.R.*	113	35			143		8	5		13	

SITE 41WPM04

AREA F

	1	17	13	-	30		1	6		7	
	2	56	23	-	81		3	6		9	
	3	54	13	-	67		2	1		3	
	4	25	10	-	35		-	-		-	
	5	17	6	-	23		2	-		2	
	6	4	2	-	6		-	-		-	
	7	1	-	-	1		-	-		-	
Sub-total (w/o Feature)	176	67					8	13			
Feature Total	-	-	-	-	-		-	-	-	-	
T.B.R.	176	67			243		8	13		21	

SITE 41WPM04

AREA G

TOTAL BONE RECOVERED *
(Includes Identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
	1			-							
	2	119	102	-	221		12	22		34	
	3			-							
	4	5	7	-	12		-	1		1	
	5	1	1	-	2		-	-		-	
	6	3	7	-	10		-	-		-	
Sub-total (w/o Feature)	128	117					12	23			
Feature Total	-	-	-	-	-		-	-	-	-	
T.B.R.*	128	117			245		12	23		35	

SITE 41WPM04

AREA H

	1	6	19	-	25		-	42		42	
	2	-	-	-	-		-	-		-	
	3	80	12	-	92		4	-		4	
	4	95	34		129		-	-		-	
Sub-total (w/o Feature)	181	65					4	42			
Feature Total	-	-	-	-	-		-	-	-	-	
T.B.R.*	181	65			246		4	42		46	

AREA 1

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	L.V.	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
	1	4	48	-	52		1	13		14	
	2	19	37	-	56		-	7		7	
	3	-	-	-	-		-	-		-	
	4	8	7	-	15		-	1		1	
Sub-total (w/o feature)		31	92				1	21			
Feature Total		-	-	-			-	-	-		
T.B.R.*		31	92		123		1	21		22	

SITE 41WM04

AREA J

[illegible]

SITE 41W1404

AREA K

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	L.V.	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
	1	59	224	-	283		4	26		30	
	2	14	22	-	36		-	1		1	
	3	92	21	-	113		3	7		10	
	4	51	11	-	62		1	1		2	
	5	2	-	-	2		-	-	-		
Sub-total (w/o Feature)	21G	278					8	35			
Feature Total	-	-	-	-			-	-	-		
T.B.R.*	21G	278			496		8	35		43	

SITE 41NM404

AREA _____

	1	17	141	-	158		1	26		27
	2	51	103	-	154		2	15		17
	3	85	60	-	153		5	7		12
	4	11	9	-	20		-	1		1
	5	3	-	-	3		-	-		-
Sub-total (w/o Feature Total	167	321					8	49		
T.B.R.*	167	321		488			8	49		57

AREA IN

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
	1	21	34	-	55		4	10		14	
	2	36	29	-	65		1	5		6	
	3	12	6	-	18		1	1		2	
Sub-total (w/o Feature)		69	69				6	16			
Feature (ca)		-	-	-			-	-	-		
T.B.R.*		69	69		138		6	16		22	

AREA N

	1	-	8	-	8		-	4		4	
	2	-	39	-	39		-	8		8	
	3	30	41	-	71		3	20		23	
	4	21	42	-	63		2	9		11	
	5	3	12	-	15		-	2		2	
	6	1	1	-	2		-	-		-	
Sub-tota	55	143					5	43			
(w/o Fee	-	-	-				-	-	-		
Feature											
Total)											
T.B.R.	55	143		198			5	43		48	

AREA P

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED SCENE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#10
	1	-	3	-	3		-	2		2	
	2	3	38	-	41		1	13		14	
	3	25	116	-	141		2	45		47	
	4	57	116	-	173		-	19		19	
	5	2	6	-	8		-	-		-	
	6	-	10	-	10		-	-		-	
Sub-total (w/o Feature)	87	289					3	79			
Feature Total	-	-	-				-	-	-		
T.B.R.*	87	289			376		3	79		82	

AREA R

[illegible]

AREA S

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Surface		1	3	-	4		-	2	-	2	
Sub-total (w/o Feature)		1	3	-			-	2	-		
Feature Total		-	-	-			-	-	-		
T.B.R. =		1	3	-	4		-	2	-	2	

SITE 41NM404

AREA T

[illegible]

SITE 41WP1133

AREA XU-6

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

[illegible]

SITE 41WM124

AREA A

TOTAL BONE RECOVERED *
(Includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	XID
Austin Toyah	1	-	39	-	39						
"	2	-	4	-	4						
"	3	-	2	-	2		-	35	-	35	32
"	4	4	15	-	19						
"	5	17	27	-	44	108					
Twin Sisters	6	3	22	-	25						
"	7	14	52	-	66						
"	8	10	41	-	51						
"	9	22	54	-	76						
"	10	18	17	-	35						
"	11	8	40	-	48						
"	12	8	32	-	40		22	173	64	259	19.5
"	13	16	68	-	84						
"	14	22	73	-	95						
"	15	9	110	-	118						
"	16	11	74	-	85						
"	17	17	56	-	73						
"	18	4	52	-	56						
"	19	15	54	266	335						
"	20	28	102	-	130	1317					
San Marcos	21	45	133	-	178						
"	22	12	37	-	49						
"	23	11	34	-	45						
"	24	16	21	-	37						
"	25	5	32	-	37						
"	26	5	37	-	41						

SITE 41WM124

AREA A (Continued)

TOTAL BONE RECOVERED *
(Includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	XID
San Marcos (Cont.)	27	6	93	-	99						
"	28	3	39	-	42						
"	29	9	36	-	45		9	78	-	87	11
"	30	16	39	-	55						
"	31	2	34	-	36						
"	32	11	22	-	33						
"	33	2	10	-	12						
"	34	2	11	-	13						
"	35	5	15	-	20						
"	36	1	9	-	10						
"	37	1	17	-	18	773					
Sub-total (W/O Feature)		379	1553				31	286			
Feature Total		48	210	266			2	62	64		
T.B.R.*		427	1771		2196		33	348		381	17

SITE 41WM124

AREA B

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Austin/Toyah	1	-	-	-	-						
"	2	-	-	-	-						
"	3	3	6	-	9		-	12	-	12	10
"	4	4	9	-	13						
"	5	3	11	-	14						
"	6	22	23	-	45						
"	7	12	22	-	34	115					
Twin Sisters	8	8	9	-	17						
"	9	6	12	-	18						
"	10	8	28	-	35		-	7	-	7	5
"	11	11	20	-	31						
"	12	7	27	-	34	136					
San Marcos	13	30	68	-	98						
"	14	5	22	-	27						
"	15	5	15	-	20						
"	16	2	6	-	8						
"	17	4	3	-	7		1	14	-	15	7.7
"	18	3	6	-	9						
"	19	-	11	-	11						
"	20	1	11	-	12						
"	21	-	-	-	-						
"	22	-	1	-	1	193					
Sub-total (w/o Feature)	134	310					1	33			
Feature Total	-	-	-	-	-		-	-	-		
T.B.R.*	134	310			444		1	33		34	7.6

SITE 41WM124

AREA C

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Early Archeic (Clear Fork)	1	-	-	-	-		-	-	-	-	
"	2	3	27	-	30		-	3	-	3	
"	3	7	121	-	128		-	40	-	40	
"	4	14	122	-	136		-	21	-	21	
"	5	3	10	-	13		-	-	-	-	
"	6	-	2	-	2	309	-	-	-	-	
Sub-total (w/o Feature)	27	282					-	64			
Feature Total	-	-	-	-	-		-	-	-		
T.B.R.*	27	282			309		-	64		64	21

SITE 41MM163

AREA A

TOTAL BONE RECOVERED *
(Includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
	1	-	-		-						
	2	9	30		39						
	3	9	47		56						
	4	0	5		5						
	5	-	-		-						
	6	0	1		1						
	7	-	-		-						
	8	-	-		-						
	9	-	-		-						
	10	-	-		-						
	11	-	-		-						
	12	1	2		3						
	13	-	-		-						
	14	-	-		-						
Total		19	85		104					None	

SITE 41MM163

AREA B

TOTAL BONE RECOVERED *
(Includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Toyah	1	1	6		-						
"	2	-	-		-	7	1	1		2	29
Twin Sisters	3	15	47		62						
"	4	3	10		13						
"	5	2	9		11						
"	6	2	1		3		0	4		4	3
"	7	0	10		10						
"	8	11	33		44	143					
San Marcos	9	7	26		33						
"	10	10	16		26	59	1	6		7	12
Round Rock	11	1	2		3						
"	12	2	19		21		2	16		18	31
"	13	11	20		31						
"	14	0	3		3	58					
Total		65	202		267		4	27		31	12

SITE 41MM163

AREA Backhoe Trenches

TOTAL BONE RECOVERED *
(Includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
#1		0	5		5		-	-		-	
#2		2	25		27		0	3		3	11
#3		2	14		16		1	7		8	50
#9		0	42		42		-	1		1	2
#10		0	16		16		0	3		3	19
#11		0	2		2		-	-		-	
Total		4	104		108		1	14		15	15

SITE 41W4230

AREA XU-1

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	XID
Austin/Toyah	1	-	-	-	-						
"	2	44	65	89	198						
"	3	168	74	-	242		2	53	4	59	2.5
"	4	560	179	36	775						
"	5	854	206	-	1060	2278					
Austin	6	1239	234	2101	3624	3624	4	22	64	90	2.5
Twin Sisters	7	766	182	682	1630						
"	8	344	54	209	607		10	92	7	109	3.9
"	9	206	57	-	263						
"	10	152	107	8	267	2767					
Round Rock	11	130	161	-	291						
"	12	62	115	-	177						
"	13	33	43	-	76		6	102	-	108	14
"	14	17	83	-	100						
"	15	14	123	-	137	778					
Fill	16	86	30	-	116	116					
"	17	16	23	-	39	39	-	13	-	13	
Sub-total (w/o Feature)	18	1736					22	282			
Feature Total	19	2650	475	3125			7	68	75		
T.B.R.*	20	7341	2261		9602		29	350		379	3.9

SITE 41W4230

AREA XU-2

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	XID
	1	-	5	-	5		-	-	-	-	
	2	-	168	-	168		1	62	-	63	
Sub-total (w/o Feature)	3	-					1	62			
Feature Total	4	-	-	-	-		-	-	-	-	
T.B.R.*	5	-	173	-	173		1	62	-	63	36

SITE 41W230

AREA XU-3

TOTAL BONE RECOVERED *
(Includes Identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
	1	-	53	-	53						
Austin/Toyah	2	65	1059	124	1248						
"	3	85	602	-	687		14	609	42	665	26
"	4	81	407	113	501	2536					
Twin Sisters	5	105	940	227	1272						
"	6	158	958	94	1210						
"	7	173	862	35	1070						
"	8	164	791	78	1033						
"	9	196	848	120	1166						
"	10	203	724	169	1096						
"	11	150	176	55	381						
"	12	142	419	1	562		82	1319	234	1635	19.5
"	13	31	70	23	124						
"	14	17	76	-	93						
"	15	19	25	-	44						
"	16	16	16	-	32						
"	17	3	41	206	250						
"	18	6	23	-	29						
"	19	-	-	-	-						
"	20	12	25	14	51	8413					
San Marcos	21	8	38	-	46						
"	22	3	29	-	32						
"	23	5	32	-	37						
"	24	17	46	-	63						
"	25	18	66	57	141						
"	26	45	116	-	162						

SITE 41W230

AREA XU-3 (Continued)

TOTAL BONE RECOVERED *
(Includes Identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
San Marcos (Cont.)	27	152	220	6	378						
"	28	181	170	8	359						
"	29	35	58	-	93		10	62	2	74	5
"	30	9	58	-	67						
"	31	3	10	-	13						
"	32	4	5	-	9						
"	33	-	33	-	33	1433					
Round Rock	34	3	5	-	18						
"	35	7	63	-	75						
"	36	8	47	-	55		7	3	6	16	4
"	37	13	38	-	51						
"	38	29	88	76	133						
"	39	2	10	14	26	358					
"	?	10	171	21	202						
Sub-total (w/o Feature)		2181	9433				113	1993			
Feature Total		212	1169	1381			3	281	284		
T.B.R.*		2393	10602		12,995		116	2274		2390	18.5

SITE 41M230

AREA XU-5

TOTAL BONE RECOVERED *
(Includes Identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	X10
Toyah	1	-	8	-	8						
"	2	4	46	-	50			58		59	29
"	3	2	37	-	39						
"	4	15	89	-	104	201					
Austin	5	8	79	8	95						
"	6	15	59	156	230						
"	7	20	46	-	66						
"	8	9	132	-	141						
"	9	10	24	44	78						
"	10	5	10	-	15						
"	11	4	16	-	20			57	16	74	10
"	12	1	40	-	41						
"	13	6	21	-	27						
"	14	3	4	-	7						
"	15	3	21	-	24						
"	16	-	-	-	-						
"	17	-	-	-	-						
"	18	-	-	-	-	744					
Sub-total (w/o Feature)	105	632					2	115			
Feature Total		57	151	206			1	15	16		
T.B.R.*		162	783		945		3	131		133	14

SITE 41M230

AREA XU-7

TOTAL BONE RECOVERED *
(Includes Identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	X10
	1	-	-	-	-		-	-	-	-	
	2	1	1	-	2		-	-	-	-	
	3	-	1	-	1		-	1	-	1	
	4	-	-	-	-		-	-	-	-	
	5	-	1	-	1		-	-	-	-	
	6	-	-	-	-		-	1	-	1	
	7	-	-	5	5		-	-	2	2	
	8	-	-	-	-		-	-	-	-	
	9	-	1	-	1		-	-	-	-	
	10	-	1	-	1		-	-	-	-	
Sub-total (w/o Feature)	1	5					-	2			
Feature Total		1	4	5			-	2	2		
T.B.R.*		2	9		11		-	4		4	36

SITE 41M230

AREA XU-8

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	XID
Toyah	1	-	-	-	-	-	-	-	-	-	
"	2	-	14	-	14	-	-	12	-	12	
"	3	3	154	-	157	-	-	6	-	6	
"	4	-	-	68	68	-	-	1	7	8	
"	5	-	3	-	3	-	-	-	-	-	
"	6	-	-	-	-	-	-	-	-	-	
"	7	-	2	-	2	-	-	-	-	-	
"	8	-	-	-	-	-	-	1	-	1	
"	9	-	-	-	-	-	-	-	-	-	
"	10	-	-	-	-	-	-	-	-	-	
"	11	-	11	-	11	-	-	-	-	-	
Sub-Total (w/o Feature)	3	184	-	-	-	-	-	20	-	-	
Feature Total	-	-	68	68	-	-	-	7	7	-	
T.B.R.*	3	252	-	-	255	-	-	27	-	27	8

SITE 41M230

AREA XU-9

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	XID
Round Rock	1	-	-	-	-	-	-	-	-	-	
"	2	1	14	-	15	-	-	-	-	-	
"	3	-	6	-	6	-	-	2	-	2	0
"	4	1	-	-	1	-	-	-	-	-	
"	5	-	12	-	12	34	-	-	-	-	
Round Rock	6	4	14	-	18	-	-	-	-	-	
"	7	-	25	3	28	-	-	-	-	-	
"	8	10	55	-	65	-	-	-	-	-	
"	9	13	51	25	89	-	-	17	3	20	8
"	10	2	30	-	32	-	-	-	-	-	
"	11	5	3	3	11	-	-	-	-	-	
"	12	-	-	-	-	243	-	-	-	-	
Sub-Total (w/o feature)	36	210	-	-	-	-	-	19	-	-	
Feature Total	-	8	23	31	-	-	-	3	3	-	
T.B.R.*	44	233	-	-	277	-	-	22	-	22	8

SITE 41W258

AREA A

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	SID
	1	-	-	-	-						
Toyah	2	-	73	-	73						
"	3	36	64	-	100		14	69		83	11
"	4	88	231	-	319						
"	5	62	181	-	243	735					
Austin	6	16	95	-	111		-	38		38	13
"	7	14	157	-	171	282					
Twin Sisters	8	14	93	-	107						
"	9	-	19	-	19		-	20		20	15
"	10	-	3	-	3	129					
Sub-Total (w/o Feature)	230	916					14	127			
Feature Total	-	-	-	-	-	-	-	-	-	-	-
T.B.R.*	230	916			1146		14	127		141	12

SITE 41W258

AREA B

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	SID
Over-burden	1	1	28	-	29	29					
Toyah	2	6	102	-	108						
"	3	79	498	216	793						
"	4	55	554	-	609		4	52	28	84	5
"	5	28	182	-	210						
"	6	6	70	-	76	1798					
Austin	7	3	39	-	42						
"	8	1	18	-	19		1	13	-	14	15
"	9	4	18	-	22						
"	10	1	9	-	10	93					
Twin Sisters	11	-	1	-	1						
"	12	-	-	-	-						
"	13	2	-	-	2		-	1	-	1	33
"	14	-	-	-	-						
"	15	-	-	-	-	3					
Sub-Total (w/o Feature)	188	1519					5	66			
Feature Total	-	216	216				-	28	28		
T.B.R.*	188	1735			1923		5	94		99	5

SITE 41W258

AREA C

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	KID
	1	-	-	-	-						
Overburden	2	2	2	-	4	4					
Undetermined	3	-	5	-	5						
"	4	6	29	-	35		-	8		8	9
"	5	13	40	-	53	93					
Twin Sisters	6	7	12	-	19						
"	7	24	41	-	65		5	9		14	7
"	8	57	46	-	103	187					
Late Archaic	9	5	15	-	20						
"	10	11	36	-	47						
"	11	4	33	-	37						
"	12	1	9	-	10		4	13		17	13
"	13	-	-	-	-						
"	14	6	6	-	12						
"	15	-	-	-	-	126					
Sub-Total (w/o Feature)	136	274					9	30			
Feature Total	-	-	-	-	-		-	-	-		
T.B.R.*	136	274			410		9	30		39	10

SITE 41W267

AREA A 1 of 2

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	KID
San Marcos	1	-	-	-	-						
"	2	8	35	-	43						
"	3	5	68	-	73						
"	4	20	55	-	75						
"	5	18	125	-	143						
"F10	6	24	254	28	306		24	437	5	466	26
"	7	67	161	-	228						
"	8	12	169	-	181						
"	9	18	198	-	216						
"	10	17	95	-	112						
"	11	13	102	-	115						
"	12	15	109	-	124						
"	13	15	164	-	179	1795					
Clear Fork	14	39	210	-	249						
"	15	77	227	-	304						
"	16	52	250	-	302		30	317	3	350	17
"	17	90	364	-	454						
"F5	18	37	352	4	393						
"	19	37	315	-	352	2054					
San Geronimo	20	66	293	-	359						
"	21	31	175	-	206						
"	22	11	56	-	67						
"	23	3	67	-	70		14	145	-	159	18
"	24	-	42	-	42						

AREA A 2 of 2

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

[illegible]

SITE 41WM262

AREA 8 1 of 2

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#10
Overburden	1	-	-	-	-		-	-	-	-	
Twin Sisters	2	6	48	-	54						
"	3	1	122	-	123						
"	4	4	130	-	134		2	197		199	28
"	5	13	143	-	156						
"	6	46	201	-	247	714					
San Marcos	7	25	262	-	287				-		
"	8	103	662	-	765						
"	9	119	703	-	822						
"	10	112	643	-	755		22	898	5	923	20
"	11	45	555	-	600						
"	12	49	494	-	543						
F4, 12 "	13	58	386	381	825	4597					
Clear Fork	14	49	475	85	609						
"F6	15	32	388	-	420						
"	16	67	196	-	263						
"	17	49	317	-	366						
"	18	45	193	-	238		78	1214		1290	30
"	19	50	311	-	361						
"	20	67	335	-	402						
"	21	79	317	-	396						
"	22	131	415	-	546						
"	23	109	380	-	489						
"	24	7	91	-	100						
"F7	25	8	123	3	134	4324					

SITE 41W267

AREA B

2 of 2

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
San Geronimo	26	8	53	-	61						
"	27	1	49	-	50						
"	28	1	27	-	28		3	46		49	25
"	29	1	1	-	2						
"	30	-	29	-	29						
"	31	-	-	-	-						
"	32	-	24	-	24	194					
Sub-Total w/o Feature	1265	8075					105	2356			
Feature Total	7	462	469				-	3	3		
T.B.R.*	1292	8537			9829		105	2356		2461	25

SITE 41W267

AREA C(XU-3)

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
1	-	-	-	-	-						
2	-	-	-	-	-						
3	-	-	-	-	-						
4	-	-	-	-	-						
5	-	-	-	-	-						
6	-	-	-	-	-						
7	-	-	6	6							
Sub-Total w/o Feature	-	-									
Feature Total	2	4	6								
T.B.R.*	2	4			6					NONE	

SITE 41W267

AREA D
entire (both seasons)TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	#ID
Twin Sisters	1	1	1		2						
"	2	0	3		3						
"	3	0	2		2						
"	4	1	5		6						
"	5	2	3		5						
"	6	1	3		4						
"	7	-	-		-						
"	8	0	1		1						
"	9	-	-		-						
"	10	-	-		-						
"	11	-	-		-						
"	12	-	-		-						
"	13	-	-		-						
"	14	-	-		-						
"	15	1	0		1						
"	16	-	-		-						
"	17	-	-		-						
"	18	1	0		1						
"	19	0	4		4						
"	20	2	1		3						
"	21	6	18		24	56	1	12		13	23
San Marcos	22	17	23		40						
"	23	2	7		9						
"	24	6	20		26						
"	25	2	4		6						
"	26	16	11		34						

SITE 41W267

AREA D (continued)

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
San Marcos (cont'd.)	27	3	17		20						
"	28	10	21		31						
"	29	15	21		36						
"	30	6	13		19						
"	31	5	17		22						
"	32	7	12		19						
"	33	2	9		11						
"	34	0	6		6						
"	35	1	10		11						
"	36	1	6		7	297	16	43		63	21%
Unknown	37	1	5		6						
"	38	0	4		4						
"	39	0	2		2						
"	40	1	1		2						
"	41	0	3		3						
"	42	0	6		6						
"	43	0	1		1						
"	44	0	1		1						
"	45	-	-		-						
"	46	0	1		1	26	1	5		6	23%
Clear Fork	47	0	1		1						
"	48	0	3		3						
"	49	0	1		1						
"	50	0	2		2						
"	51	0	1		1						

SITE 41W267

AREA D (continued)

TOTAL BONE RECOVERED *
(includes identified)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
begin 1978	51 - 52	2	1		3						
1979 Upper	53	1	2		3						
53 - 54	54	17	69		86						
	55	2	4		6						
55 - 56	56	37	292		329						
	57	2	7		9						
57 - 58	58	41	345		386						
	59	15	32		47						
59 - 60	60	79	521		600						
	61	11	49		60						
61 - 62	62	141	1138		1279						
	63	52	300		352						
63 - 64	64	36	364	5372	5772						
	65	20	235		305						
65 - 66	66	69	850		919	10164	58	873	692	1623	16%
San Geronimo	67	14	51		65						
67 - 68	68	32	421		453						
	69	21	78		99						
69 - 70	70	47	505		552						
	71	4	22		26						
71 - 72	72	49	362		411						
	73	3	23		26						
73 - 74	74	8	123		131						
	75	5	20		25						
begin 1979 Lower	75-76	14	106		120						

AREA D (continued)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
F14	77										
	78	14	136	79	229						
	79										
	80	13	40		53						
	81										
	82	22	42		64						
	83										
	84	6	61		67						
	85										
	86	13	40		53						
	87										
	88	4	61		65						
	89										
	90	-	13		13						
	91										
	92	2	17		19						
	93										
	94	5	70		75						
	95										
	96	7	15		22						
	97										
	98	2	20		22						
	99										
F24a	100	2	46	1	49						
	101										
	102	9	80		89						
	103										
	104	4	61		65						
End 1978	105										
F24a	106	4	51	41	96						
	107										
	108	8	41		49						
	109										
	110	3	24		27						
	111										
	112	2	18		20						
	113										
	114	1	17	-	18						
	115										
	116	18	20	-	38						
	117										
F19	118	5	5	2	12						
	119										
F26	120	-	45	3	48						
	121										
F28	122	1	25	7	33						
	123										
	124	-	20	-	20						
	125										
	126	2	19	-	21						

AREA D (continued)

IDENTIFIED BONE

Component	LV	#B	#UB	Feature Bone	Total	Component Total	#B	#UB	Feature Bone	Component Total	%ID
	127-										
	128	3	6	-	8						
	129-										
	130	2	24	-	26						
	131-										
	132	2	20	-	22						
	133-										
	134	1	7	-	8	3240	57	643	24	720	22%
Sub-Total w/o Features		987	7291		8278		133	1576			
Total Feature Bone		257	5248	5505			10	706	716		
T.B.R.*		1244	12539		13783		143	2282		2425	17.6%

IAS

Bone Totals PROJECT San Gabriel SITE 41WM267 AREA BWT
and general fill

UnID + ID

Identified

[illegible]

APPENDIX D:

MOLLUSCAN FAUNA TABLES

Molluscan FaunaGastropoda (766)Specimen Numbers

<u>Helicina orbiculata tropica</u>	259
<u>Rabdotus dealbatus dealbatus</u>	427
<u>Praticolella berlanderiana</u>	46
<u>Anguispira strongylodes</u>	2
<u>Mesomphix friabilis</u>	19
<u>Pupoides albilabris</u>	2
<u>Mesodon roemerii</u>	7
<u>Polygyra texasiana texasiana</u>	1
<u>Rumina decollata</u>	3

Bivalvia (10)

<u>Amblema plicata</u>	1
<u>Lampsilis radiata siliquoidea</u>	8
<u>Lampsilis teres</u>	1
Unidentifiable unionid fragments	5

Total number of specimens recovered (781)

Test AreasArea A [98N/130W, 99N/130W, 96N/129W]1. Unit 96N/129W

<u>R. d. dealbatus</u>	4
<u>L. r. siliquoidea</u>	4
<u>L. teres</u>	1
	(9)

2. Unit 98N/130W

<u>H. o. tropica</u>	153
<u>R. d. dealbatus</u>	226
<u>P. berlanderiana</u>	23
<u>M. friabilis</u>	12
<u>P. albilabris</u>	2
<u>M. roemerii</u>	7
<u>P. t. texasiana</u>	1
<u>R. decollata</u>	3
<u>A. plicata</u>	1
<u>L. r. siliquoidea</u>	1
Unidentifiable unionid fragments	3
	(431)

Site 41WM53 (continued)
Page 2
Area A

3. Unit 99N/130W

<u>H. o. tropica</u>	106
<u>R. d. dealbatus</u>	197
<u>P. berlanderiana</u>	23
<u>A. strongylodes</u>	2
<u>M. friabilis</u>	7
<u>L. r. siliquoidea</u>	1
Unidentifiable unionid fragments	<u>2</u>
	(338)

Area B [101N/128W]1. Unit 101N/128W

<u>L. r. siliquoidea</u>	<u>1</u>
	(1)

Area C [101N/117]1. Unit 101N/117W

<u>L. r. siliquoidea</u>	<u>1</u>
	(1)

Molluscan FaunaGastropoda (4,610)Specimen Numbers

<u>Helicina orbiculata tropica</u>	1,935
<u>Rabdotus dealbatus dealbatus</u>	1,675
<u>Polygyra mooreana</u>	767
<u>Praticolella berlandieriana</u>	90
<u>Anguispira strongylodes</u>	93
<u>Pupoides albilabris</u>	7
<u>Mesodon roemeri</u>	2
<u>Zonitoides arboreus</u>	1
<u>Physa virgata</u>	1
<u>Helisoma trivolvis lenta</u>	19
<u>Gyraulus parvus</u>	3
<u>Biomphalaria obstructa</u>	1
<u>Succinea sp.</u>	10
<u>Euglandina singleyana</u>	3
<u>Mesodon thyroides</u>	1
<u>Polygyra texasiana texasiana</u>	1
<u>Rumina decollata</u>	1

Bivalvia (1,780)

<u>Amblema plicata</u>	1,160
<u>Lampsilis radiata siliquoidea</u>	304
<u>Lampsilis teres</u>	300
<u>Unio merus tetralasmus</u>	1
<u>Carunculina parva</u>	5
<u>Tritogonia verrucosa</u>	6
<u>Cyrtonaias tampicoensis</u>	24
<u>Cretaceous oyster</u>	2
<u>Megaloniaias gigantea</u>	3

Total number of specimens recovered

(6,390)

Test Areas

Area A [1025N/1093W, 1025N/1094W, 1026N/1093W, 1026N/1094W, 1027N/1093W,
1027N/1093W, 1027N/1094W]

1. Unit 1025N/1093W

<u>A. plicata</u>	3
<u>L. teres</u>	1

(4)

2. Unit 1025N/1094W

<u>A. plicata</u>	3
<u>L. teres</u>	<u>1</u>
	(4)

3. Unit 1026N/1093W

<u>H. o. tropica</u>	22
<u>R. d. dealbatus</u>	20
<u>P. mooreana</u>	12
<u>A. plicata</u>	12
<u>L. r. siliquoidea</u>	3
<u>L. teres</u>	<u>4</u>
	(73)

4. Unit 1026N/1094W

<u>A. plicata</u>	8
<u>E. singleyana</u>	<u>1</u>
	(9)

5. Unit 1027N/1093W

<u>R. d. dealbatus</u>	2
<u>P. mooreana</u>	1
<u>A. plicata</u>	11
<u>L. r. siliquoidea</u>	4
<u>L. teres</u>	3
<u>U. tetralasmus</u>	<u>1</u>
	(22)

6. Unit 1027N/1094W

<u>R. d. dealbatus</u>	2
<u>P. mooreana</u>	1
<u>A. plicata</u>	11
<u>L. r. siliquoidea</u>	4
<u>L. teres</u>	<u>3</u>
	(21)

Area B [1041N/1101W, 1041N/1105W, 1041N/1106W, 1042N/1105W, 1042N/1106W]

1. Unit 1041N/1101W

<u>L. teres</u>	<u>1</u>
	(1)

2. Unit 1041N/1105W

H. o. tropica	2
R. d. dealbatus	4
A. plicata	35
L. r. siliquoidea	16
<u>L. teres</u>	<u>4</u>
	(61)

3. Unit 1041N/1106W

H. o. tropica	1
R. d. dealbatus	4
P. mooreana	1
A. plicata	41
L. r. siliquoidea	9
<u>L. teres</u>	<u>8</u>
E. singleyana	1
<u>C. parva</u>	<u>1</u>
	(76)

4. Unit 1042N/1105W

H. o. tropica	2
R. d. dealbatus	4
A. plicata	90
L. r. siliquoidea	12
<u>L. teres</u>	<u>4</u>
	(112)

5. Unit 1042N/1106W

R. d. dealbatus	2
A. plicata	49
L. r. siliquoidea	20
<u>L. teres</u>	<u>14</u>
<u>C. parva</u>	<u>1</u>
	(86)

Area C [1060N/1097-1100W, 1061N/1097-1100W, 1062N/1097-1100W, 1063N/
1097-1100, 1064N/1097-1100W]

1. Unit 1060N/1097W

<u>R. d. dealbatus</u>	4
<u>A. plicata</u>	33
<u>L. r. siliquoides</u>	8
<u>L. teres</u>	13
	(58)

2. Unit 1060N/1098W

<u>R. d. dealbatus</u>	3
<u>L. r. siliquoides</u>	5
<u>L. teres</u>	10
<u>A. plicata</u>	66
	(84)

3. Unit 1060N/1099W

<u>R. d. dealbatus</u>	3
<u>A. plicata</u>	43
<u>L. r. siliquoides</u>	6
<u>L. teres</u>	6
<u>T. verrucosa</u>	1
	(59)

4. Unit 1060N/1100W

<u>R. d. dealbatus</u>	4
<u>A. plicata</u>	58
<u>L. r. siliquoides</u>	2
<u>L. teres</u>	24
	(88)

5. Unit 1061N/1097W

<u>R. d. dealbatus</u>	4
<u>A. plicata</u>	29
<u>L. r. siliquoides</u>	14
<u>L. teres</u>	15
<u>T. verrucosa</u>	1
	(63)

Site 41WM56 (continued)
Page 5
Area C

3

6. Unit 1061N/1098W

R. d. dealbatus
P. t. texastana
A. plicata
L. r. siliquioidea
L. teres
C. tampanensis

8
1
40
14
10
2
(75)

7. Unit 1061N/1099W

A. plicata
L. r. siliquioidea
L. teres

24
4
4
(32)

8. Unit 1061N/1100W

H. o. tropica
R. d. dealbatus
P. mooreana
P. albilabris
E. singleyana
A. plicata
L. r. siliquioidea
L. teres

1
5
1
1
1
21
8
5
(43)

9. Unit 1062N/1097W

H. o. tropica
R. d. dealbatus
P. mooreana
A. plicata
L. r. siliquioidea
L. teres
C. tampanensis

1
5
1
42
8
11
4
(72)

10. Unit 1062N/1098W

R. d. dealbatus
A. plicata
L. r. siliquioidea
L. teres

49
23
9
1
(82)

Site 41WM56 (continued)
Page 6
Area C

D-9

11. Unit 1062N/1099W

<u>H. o. tropica</u>	3
<u>R. d. dealbatus</u>	2
<u>P. mooreana</u>	2
<u>A. plicata</u>	30
<u>L. r. siliquoidea</u>	5
<u>L. teres</u>	15

(57)

12. Unit 1062N/1100W

<u>R. d. dealbatus</u>	2
<u>A. plicata</u>	31
<u>L. r. siliquoidea</u>	10
<u>L. teres</u>	14
<u>C. tampicoensis</u>	3
<u>T. verrucosa</u>	1
<u>C. oyster</u>	1

(62)

13. Unit 1063N/1097W

<u>H. o. tropica</u>	1
<u>R. d. dealbatus</u>	2
<u>A. plicata</u>	29
<u>L. r. siliquoidea</u>	9
<u>L. teres</u>	9
<u>C. tampicoensis</u>	3

(53)

14. Unit 1063N/1098W

<u>H. o. tropica</u>	1,897
<u>R. d. dealbatus</u>	1,510
<u>P. mooreana</u>	741
<u>P. berlandieriana</u>	90
<u>A. strongylodes</u>	93
<u>P. albilabris</u>	6
<u>M. roemeri</u>	2
<u>Z. arboreus</u>	1
<u>P. virgata</u>	1
<u>H. t. lenta</u>	19
<u>G. parvus</u>	3
<u>B. obstructa</u>	1
<u>Succinea sp.</u>	10

Site 41WM56 (continued)
 Page 7
 Area C

<u>A. plicata</u>	44
<u>L. r. siliquoidea</u>	41
<u>L. teres</u>	4
<u>T. verrucosa</u>	1
<u>M. gigantea</u>	3
	(4,557)

15. Unit 1063N/1099W

<u>A. plicata</u>	22
<u>L. r. siliquoidea</u>	12
<u>L. teres</u>	12
<u>C. tampicoensis</u>	1
	(47)

16. Unit 1063N/1100W

<u>R. d. dealbatus</u>	2
<u>A. plicata</u>	23
<u>L. r. siliquoidea</u>	10
<u>L. teres</u>	7
<u>T. verrucosa</u>	1
	(43)

17. Unit 1064N/1097W

<u>R. d. dealbatus</u>	1
<u>P. mooreana</u>	2
<u>A. plicata</u>	30
<u>L. r. siliquoidea</u>	9
<u>L. teres</u>	11
<u>M. thyroides</u>	1
	(54)

18. Unit 1064N/1098W

<u>H. o. tropica</u>	1
<u>R. d. dealbatus</u>	2
<u>A. plicata</u>	27
<u>L. r. siliquoidea</u>	6
<u>L. teres</u>	11
<u>C. tampicoensis</u>	2
<u>T. verrucosa</u>	1
	(50)

19. Unit 1064N/1099W

<u>R. d. dealbatus</u>	7
<u>A. plicata</u>	27
<u>L. r. siliquoidea</u>	10
<u>L. teres</u>	10
	(54)

20. Unit 1064N/1100W

<u>H. o. tropica</u>	1
<u>A. plicata</u>	32
<u>L. r. siliquoidea</u>	5
<u>L. teres</u>	6
	(44)

Area D [1049N/1111-1112W, 1050N/1111-1112W]

1. Unit 1049N/1111W

<u>R. d. dealbatus</u>	1
<u>P. mooreana</u>	1
<u>A. plicata</u>	28
<u>L. r. siliquoidea</u>	4
<u>L. teres</u>	4
	(38)

2. Unit 1049N/1112W

<u>H. o. tropica</u>	1
<u>A. plicata</u>	23
<u>L. r. siliquoidea</u>	3
<u>L. teres</u>	4
<u>C. tampicoensis</u>	1
<u>Cretaceous oyster</u>	1
	(33)

3. Unit 1050N/1111W

<u>R. d. dealbatus</u>	3
<u>A. plicata</u>	13
<u>L. teres</u>	2
<u>C. tampicoensis</u>	3
<u>C. parva</u>	1
	(22)

4. Unit 1050N/1111.5-1110.5W

<u>A. plicata</u>	<u>1</u>
	(1)

5. Unit 1050N/1112W

<u>R. d. dealbatus</u>	<u>2</u>
<u>L. r. siliquoidea</u>	<u>1</u>
<u>L. teres</u>	<u>3</u>
	(6)

Area E [1044N/1092-1093W, 1045N/1092-1093, 1046N/1092-1093W]

1. Unit 1044N/1092W

<u>L. teres</u>	<u>2</u>
	(2)

2. Unit 1044N/1093W

<u>R. d. dealbatus</u>	<u>2</u>
<u>A. plicata</u>	<u>12</u>
<u>L. r. siliquoidea</u>	<u>1</u>
<u>L. teres</u>	<u>2</u>
	(17)

3. Unit 1044N/1097W

<u>A. plicata</u>	<u>1</u>
	(1)

4. Unit 1045N/1092W

<u>R. d. dealbatus</u>	<u>5</u>
<u>A. plicata</u>	<u>33</u>
<u>L. r. siliquoidea</u>	<u>3</u>
<u>L. teres</u>	<u>4</u>
<u>C. tamptcoensis</u>	<u>1</u>
<u>C. parva</u>	<u>1</u>
	(47)

Site 41WM56 (continued)
Page 10
Area E

D-13

5. Unit 1045N/1093W

<u>R. d. dealbatus</u>	3
<u>A. plicata</u>	24
<u>L. r. siliquidea</u>	4
<u>L. teres</u>	4
<u>C. tampicoensis</u>	<u>1</u>
	(36)

6. Unit 1046N/1092W

<u>A. plicata</u>	28
<u>L. r. siliquidea</u>	13
<u>L. teres</u>	<u>11</u>
	(52)

7. Unit 1046N/1093W

<u>H. o. tropica</u>	2
<u>R. d. dealbatus</u>	6
<u>A. plicata</u>	38
<u>L. r. siliquidea</u>	7
<u>L. teres</u>	16
<u>C. tampicoensis</u>	<u>3</u>
	(72)

Area F [1047N/969-971W, 1048N/969-971W]

1. Unit 1047N/969W

<u>A. plicata</u>	1
<u>C. parva</u>	1
<u>R. decollata</u>	1
<u>L. teres</u>	<u>1</u>
	(4)

Site 41WM56 (continued)
 Page 11
 Area F

2. Unit 1047N/971W (all bone)

3. Unit 1048N/969W

A. plicata
L. r. siliquoidea
E. singleyana

2
 1
 1
 (4)

4. Unit 1048N/970W

A. plicata
L. teres

1
 2
 (3)

5. Unit 1048N/971W

P. mooreana
A. plicata
L. r. siliquoidea
L. teres

1
 1
 4
 1
 (7)

Molluscan FaunaGastropoda (2,066)Specimen Numbers

<u>Helicina orbiculata tropica</u>	731
<u>Rabdotus dealbatus dealbatus</u>	1,066
<u>Polygyra mooreana</u>	244
<u>Praticolella berlanderiana</u>	17
<u>Polygyra texasiana texasiana</u>	5
<u>Succinea sp.</u>	2
<u>Mesodon roemeri</u>	1

Bivalvia (546)

<u>Unio merus tetralasmus</u>	1
<u>Amblema plicata</u>	404
<u>Lampsilis radiata siliquoidea</u>	87
<u>Lampsilis teres</u>	29
<u>Cyrtornaias tampicoensis</u>	1
<u>Tritogonia verrucosa</u>	1
<u>Megalonaias gigantea</u>	1
Unidentifiable unionid fragments	24

Total number of specimens recovered

(2,612)

Test AreasArea A [1027N/1004W, 1005W, 1006W, 1007W; 1028N/1004W-1007W; 1029N/1004W-1005W]1. Unit 1027N/1004W

<u>A. plicata</u>	4
	(4)

2. Unit 1027N/1005W

<u>A. plicata</u>	3
<u>L. teres</u>	1
	(4)

3. Unit 1027N/1006W

<u>R. d. dealbatus</u>	1
<u>A. plicata</u>	3
	(4)

4. Unit 1027N/1007W

<u>A. plicata</u>	14
<u>T. verrucosa</u>	1
<u>tetralasmus</u>	1
	(16)

Site 41WM57 (continued)
Page 2
Area A

D-16

5. Unit 1027N/1084W

<u>A. plicata</u>	4
<u>L. teres</u>	<u>1</u>
	(5)

6. Unit 1028N/1004W

<u>A. plicata</u>	2
<u>L. r. siliquoidea</u>	<u>5</u>
	(7)

7. Unit 1028N/1005W

<u>A. plicata</u>	9
<u>L. teres</u>	1
<u>L. r. siliquoidea</u>	<u>3</u>
	(13)

8. Unit 1028N/1006W

Unidentifiable unionid fragments	2
<u>A. plicata</u>	2
<u>L. r. siliquoidea</u>	<u>2</u>
	(6)

9. Unit 1028N/1007W

<u>H. o. tropica</u>	23
<u>R. d. dealbatus</u>	61
<u>P. mooreana</u>	1
<u>P. berlanderiana</u>	1
<u>A. plicata</u>	5
<u>L. r. siliquoidea</u>	<u>5</u>
	(96)

10. Unit 1029N/1004W

<u>A. plicata</u>	12
<u>L. r. siliquoidea</u>	<u>3</u>
	(15)

11. Unit 1029N/1005W

<u>L. r. siliquoidea</u>	1
<u>A. plicata</u>	<u>9</u>
	(10)

Site 41WM57 (continued)
 Page 3
 Area A

12. Unit 1029N/1006WL. r. siliquoidea

9
 (9)

13. Unit 1030N/1004WA. plicata

1
 (1)

14. Unit 1030N/1005WH. o. tropicaR. d. dealbatusA. plicataL. r. siliquoidea

1
1
1
2
 (5)

Area B [1036N/1010W, 1036N/1011W, 1037N/1010W, 1037N/1011W]1. Unit 1036N/1010WA. plicataL. r. Siliquoidea

11
1
 (12)

2. Unit 1036N/1011W

Unidentifiable unionid fragments

1
 (1)

3. Unit 1037N/1010WR. d. dealbatusA. plicata

2
12
 (14)

4. Unit 1037N/1011WA. plicataL. r. siliquoideaL. teres

7
7
1
 (15)

Area C [1026N/1018W, 1026N/1019W, 1027N/1018W, 1027N/1019W]

1. Unit 1026N/1018W

<u>A. plicata</u>	4
<u>L. r. siliquoidea</u>	6
<u>L. teres</u>	<u>4</u>
	(14)

2. Unit 1026N/1019W

<u>A. plicata</u>	5
<u>L. r. siliquoidea</u>	1
<u>L. teres</u>	<u>1</u>
	(7)

3. Unit 1027N/1018W

<u>A. plicata</u>	2
<u>L. r. siliquoidea</u>	<u>1</u>
	(3)

4. Unit 1027N/1019W

<u>H. o. tropica</u>	701
<u>R. d. dealbatus</u>	994
<u>P. mooreana</u>	242
<u>P. berlanderiana</u>	16
<u>P. t. texasiana</u>	5
<u>L. r. siliquoidea</u>	2
<u>S. sp.</u>	2
<u>C. oyster</u>	<u>1</u>
	(1,963)

Area D [1012N/1062W-1063W, 1013N/1062W-1063W, 1014N/1063W-1064W,
1015N/1063W-1064W]

Site 41WM57 (continued)
Page 5
Area D

D-19

1. Unit 1012N/1062W

A. plicata

4

(4)

2. Unit 1012N/1063W

A. plicata

1

L. r. siliquoidea

4

L. teres

7

(12)

3. Unit 1013N/1062W

A. plicata

2

L. r. siliquoidea

1

(3)

4. Unit 1013N/1063W

Unidentifiable unionid fragments

1

A. plicata

1

(2)

5. Unit 1013N/1064W

A. plicata

3

(3)

6. Unit 1014N/1063W

L. r. siliquoidea

2

(2)

7. Unit 1014N/1064W

A. plicata

3

(3)

8. Unit 1015N/1063W

A. plicata

8

L. teres

3

L. r. siliquoidea

4

(15)

9. Unit 1015N/1064W

<u>A. plicata</u>	2
<u>L. r. siliquoidea</u>	<u>2</u>
	(4)

Area E [1017N/1021, 1022, 1023, 1024W; 1018N/1021, 1022, 1023, 1024W;
1019N/1021, 1022, 1023, 1024W; 1020N/1021W]

1. Unit 1017N/1021W

<u>A. plicata</u>	3
<u>L. teres</u>	<u>1</u>
	(4)

2. Unit 1017N/1022W

<u>A. plicata</u>	4
<u>M. gigantea</u>	<u>1</u>
	(5)

3. Unit 1017N/1023W

<u>A. plicata</u>	22
<u>L. r. siliquoidea</u>	2
<u>L. teres</u>	2
<u>C. tampicoensis</u>	<u>1</u>
	(27)

4. Unit 1017N/1024W

<u>A. plicata</u>	7
<u>L. r. siliquoidea</u>	2
<u>L. Teres</u>	<u>1</u>
	(10)

5. Unit 1018N/1021W

<u>A. plicata</u>	7
<u>L. r. siliquoidea</u>	<u>1</u>
	(8)

Site 41WM57 (continued)
Page 7
Area E

D-21

6. Unit 1018N/1022W

A. plicata
L. r. siliquoidea
L. teres

8
4
1
(13)

7. Unit 1018N/1028W

A. plicata

8
(8)

8. Unit 1018N/1024W

A. plicata

7
(7)

9. Unit 1019N/1021W

H. o. tropica
R. d. dealbatus
P. mooreana

6
5
1
(12)

10. Unit 1019N/1022W

A. plicata
L. r. siliquoidea

4
1
(5)

11. Unit 1019N/1023W

L. teres

1
(1)

12. Unit 1019N/1024W

L. r. siliquoidea

1
(1)

13. Unit 1020N/1021W

L. r. siliquoidea

3
(3)

Area F [1022N/999, 1000W; 1023N/999, 1000W]

1. Unit 1022N/999W

<u>A. plicata</u>	29
<u>L. r. siliquoides</u>	<u>2</u>
	(31)

2. Unit 1022N/1000W

<u>A. plicata</u>	<u>10</u>
	(10)

3. Unit 1023N/999W

<u>A. plicata</u>	<u>1</u>
	(1)

4. Unit 1023N/1000W

<u>A. plicata</u>	20
<u>L. r. siliquoides</u>	<u>4</u>
	(24)

Area G [1047N/1035, 1036W; 1048N/1035, 1036W; 1049N/1035, 1036W; 1050N/1035, 1036W]

1. Unit 1047N/1035W

<u>A. plicata</u>	5
<u>L. r. siliquoides</u>	<u>1</u>
	(6)

2. Unit 1047N/1036W

<u>A. plicata</u>	17
<u>L. r. siliquoides</u>	<u>1</u>
<u>L. teres</u>	<u>1</u>
	(19)

3. Unit 1048N/1035W

<u>A. plicata</u>	9
<u>L. teres</u>	<u>1</u>
	(10)

Site 41WM57 (continued)
Page 9
Area G

D-23

4. Unit 1048N/1036W

A. plicata
L. r. siliquoidea

9
1

(10)

5. Unit 1049N/1035W

A. plicata
L. r. siliquoidea

18
3

(21)

6. Unit 1049N/1036W

A. plicata
L. r. siliquoidea

17
2

(19)

7. Unit 1050N/1026W

L. r. siliquoidea

1

(1)

8. Unit 1050N/1035W

A. plicata
M. roemeri
L. r. siliquoidea

7
1
2

(10)

9. Unit 1050N/1036W

A. plicata
L. r. siliquoidea
L. teres

14
1
1

(16)

Area H [1059N/1059, 1060W; 1060N/1059, 1060W]

1. Unit 1059N/1059W

A. plicata

8
(8)

2. Unit 1059N/1060W

Unidentifiable unionid fragments

1
(1)

3. Unit 1060N/1059W

A. plicata

3
(3)

4. Unit 1060N/1060W

A. plicata

1
(1)

Area I [1100N/1062W]

1. Unit 1100N/1062W

A. plicata
L. teres

1
1
(2)

Molluscan FaunaGastropoda (4,133)Specimen Numbers

<u>Helicina orbiculata tropica</u>	512
<u>Rabdotus dealbatus dealbatus</u>	3,432
<u>Polygyra mooreana</u>	128
<u>Praticolella berlandieriana</u>	5
<u>Pupoides albilabris</u>	7
<u>Polygyra texasiana texasiana</u>	5
<u>Mesodon roemeri</u>	1
<u>Helisoma trivolvis lenta</u>	13
<u>Glyphyalinia indentata paucilirata</u>	3
<u>Zonitoides arboreus</u>	5
<u>Physa virgata</u>	3
<u>Gyraulus parvus</u>	5
<u>Helicodiscus parallelus</u>	8
<u>Succinea sp.</u>	7

Bivalvia (367)

<u>Amblema plicata</u>	230
<u>Lampsilis radiata siliquoidea</u>	88
<u>Lampsilis teres</u>	48
<u>Cyrtonaias tampicoensis</u>	1

Total number of specimens recovered (4,500)

Test AreasArea A [1032N/1067W]1. Unit 1032N/1067W

<u>A. plicata</u>	4
<u>L. r. siliquoidea</u>	4
	(8)

Area B [1040N/1048W-1041N/1051W]1. Unit 1040N/1048W

<u>A. plicata</u>	28
<u>L. r. siliquoidea</u>	8
<u>L. teres</u>	1
	(37)

Site 41WM73 (continued)
 Page 2
 Area B

2. Unit 1040N/1049W

A. plicata
L. r. siliquoidea

44
24
 (68)

3. Unit 1040N/1050W

A. plicata
L. r. siliquoidea
C. tampicoensis

13
 17
1
 (31)

4. Unit 1040N/1051W

A. plicata
L. r. siliquoidea
L. teres

33
 3
7
 (43)

5. Unit 1041N/1048W

A. plicata

14
 (14)

6. Unit 1041N/1049W

R. d. dealbatus
A. plicata
L. teres

1
 25
2
 (27)

7. Unit 1041N/1050W

A. plicata
L. r. siliquoidea
L. teres

22
 2
4
 (28)

Site 41WM73 (continued)
 Page 3
 Area B

8. Unit 1041N/1051W

<u>R. d. dealbatus</u>	3,431
<u>H. o. tropica</u>	512
<u>P. mooreana</u>	128
<u>P. berlanderiana</u>	5
<u>P. albilabris</u>	7
<u>M. roemerii</u>	1
<u>H. t. lenta</u>	13
<u>G. i. paucilirata</u>	3
<u>A. plicata</u>	40
<u>L. r. siliquoidea</u>	30
<u>L. teres</u>	34
<u>P. t. texasiana</u>	5
<u>Z. arboreus</u>	5
<u>P. virgata</u>	3
<u>G. parvus</u>	5
<u>H. parallelus</u>	8
<u>S. sp.</u>	7
	(4,098)

Area C [1038N/1034W]

1. Unit 1038N/1034W

<u>A. plicata</u>	7
	(7)

SITE 41WM122

Molluscan Fauna

Bivalvia (102)Specimen Numbers

Amblema plicata
Lampsilis radiata siliquoidea
Cyrtonaias tampicoensis
Tritogonia verrucosa
Cyclonaias tuberculata

86
11
1
3
1

Total number of specimens recovered

(102)

AD-A117 353

NORTH TEXAS STATE UNIV DENTON INST OF APPLIED SCIENCES F/G 5/6
ARCHAEOLOGICAL INVESTIGATIONS AT THE SAN GABRIEL RESERVOIR DIST--ETC (U)
JUN 82 T R HAYS DACW63-78-C-0012

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2-3

Molluscan FaunaGastropoda (2,308)Specimen Numbers

<u>Polygyra auriformis</u>	6
<u>Mesodon roemeri</u>	1
<u>Helicina orbiculata tropica</u>	1,135
<u>Rabdotus dealbatus dealbatus</u>	273
<u>Polygyra mooreana</u>	76
<u>Anguispira strongylodes</u>	563
<u>Pupoides albilabris</u>	2
<u>Polygyra texasiana texasiana</u>	38
<u>Strobilops texasiana</u>	2
<u>Glyphpalinia indentata paucilirata</u>	11
<u>Praticolella berlandieriana</u>	13
<u>Mesomphix friabilis</u>	185
<u>Zonitoides arboreus</u>	2
<u>Lymnaea humilis</u>	1

Bivalvia (269)

<u>Amblema plicata</u>	91
<u>Lampsilis radiata siliquioidea</u>	65
<u>Lampsilis teres</u>	64
<u>Tritogonia verrucosa</u>	10
<u>Quadrula quadrula</u>	1
<u>Unidentifiable unionid fragments</u>	31
<u>Cyclonaias tuberculata</u>	5
<u>Carunculina parva</u>	1
<u>Corbicula manilensis</u>	1

Total number of specimens recovered

(2,577)

Test AreasArea A [801N/803W, 801N/804W]1. Unit 801N/803W

<u>M. roemeri</u>	1
<u>H. o. tropica</u>	590
<u>R. d. dealbatus</u>	168
<u>P. mooreana</u>	61
<u>A. strongylodes</u>	388
<u>P. albilabris</u>	1
<u>P. t. texasiana</u>	11
<u>S. texasiana</u>	2
<u>G. i. paucilirata</u>	9
<u>P. berlandieriana</u>	10
<u>M. friabilis</u>	137

<u>L. humilis</u>	1
<u>A. plicata</u>	32
<u>L.r. siliquoidea</u>	34
<u>L. teres</u>	12
Unidentifiable unionid fragments	8

(1,465)

2. Unit 801N/804W

<u>H. o. tropica</u>	545
<u>R. d. dealbatus</u>	104
<u>P. mooreana</u>	15
<u>P. berlandieriana</u>	3
<u>A. strongylodes</u>	175
<u>M. friabilis</u>	48
<u>P. albilabris</u>	1
<u>P. t. texastana</u>	27
<u>Z. arboreus</u>	2
<u>G. i. paucilirata</u>	2
<u>P. auriformis</u>	6
<u>A. plicata</u>	19
<u>L. R. siliquoidea</u>	24
<u>L. teres</u>	11
<u>C. tuberculata</u>	4
<u>C. manilensis</u>	1

(987)

Area B [813N/805W, 814N/805W]

1. Unit 813N/805W

<u>A. plicata</u>	11
<u>L. r. siliquoidea</u>	1
<u>L. teres</u>	19
<u>Q. quadrula</u>	1
Unidentifiable unionid fragments	5

(37)

2. Unit 814N/805W

Unidentifiable unionid fragments	18
<u>A. plicata</u>	25
<u>L. teres</u>	2
<u>T. verrucosa</u>	3
<u>L. r. siliquoidea</u>	3
<u>C. tuberculata</u>	1

(52)

Area C [710N/833W, 711N/833W]

1. Unit 710N/833W

<u>R. d. dealbatus</u>	1
<u>A. plicata</u>	2
<u>L. r. siliquoidea</u>	2
<u>L. teres</u>	5
	(10)

2. Unit 711N/833W

<u>A. plicata</u>	2
<u>L. r. siliquoidea</u>	1
<u>L. teres</u>	15
<u>T. verrucosa</u>	7
<u>C. parva</u>	1
	(26)

SITE 41WM163
Molluscan Fauna

Bivalvia (60)Specimen Numbers

<u>Amblema plicata</u>	31
<u>Lampsilis radiata siliquoidea</u>	5
<u>Lampsilis teres</u>	1
<u>Ligumia nasuta</u>	2
<u>Cyrtornaias tampicoensis</u>	1
<u>Cretaceous oyster</u>	1
Unidentifiable unionid fragments	<u>19</u>
Total number of specimens recovered	(60)

Test AreasArea A [1001N/1004W]1. Unit 1001N/1004W

Unidentifiable unionid fragments	6
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Area B [999N/1056W, 1000N/1054W]1. Unit 999N/1056W

<u>A. plicata</u>	4
<u>Cretaceous oyster</u>	1
Unidentifiable unionid fragments	<u>10</u>
	(16)

2. Unit 1000N/1054W

<u>A. plicata</u>	9
<u>C. tampicoensis</u>	1
Unidentifiable unionid fragments	<u>3</u>
	(13)

BHT Collections

<u>A. plicata</u>	18
<u>L.r. siliquoidea</u>	5
<u>L. teres</u>	1
<u>L. nasuta</u>	<u>2</u>
	(26)

SITE 41WM258

D-33

Molluscan Fauna

Gastropoda (5,019)

Specimen Numbers

<u>Helicina orbiculata tropica</u>	3,177
<u>Rabdotus dealbatus dealbatus</u>	455
<u>Polygyra mooreana</u>	116
<u>Praticolella berlandieriana</u>	22
<u>Anguispira strongylodes</u>	648
<u>Mesomphix friabilis</u>	571
<u>Mesodon roemer</u>	3
<u>Polygyra texasiana texasiana</u>	28

Bivalvia (315)

<u>Amblema plicata</u>	12
<u>Lampsilis radiata siliquoidea</u>	208
<u>Lampsilis teres</u>	79
<u>Cyrtonaias tampicoensis</u>	9
<u>Tritogonia verrucosa</u>	1
<u>Quadrula quadrula</u>	4
<u>Unio merus tetralasmus</u>	2

Total number of specimens recovered (5,336)

Test Areas

Area A [N976/W972--N975/W972; N976/W973--N975/W972]

1. Unit N976/W972

<u>L. r. siliquoidea</u>	25
<u>L. teres</u>	14
<u>H. o. tropica</u>	1
	(40)

2. Unit N975/W972

<u>A. plicata</u>	2
<u>L. r. siliquoidea</u>	8
<u>C. tampicoensis</u>	1
<u>L. teres</u>	1
	(12)

3. Unit N976/W973

<u>L. r. siliquoidea</u>	22
<u>A. plicata</u>	3
<u>L. teres</u>	3

<u>C. tampicoensis</u>	4
<u>A. stronglylodes</u>	<u>1</u>
	(33)

4. Unit N975/W973

<u>A. plicata</u>	1
<u>L. r. siliquoidea</u>	23
<u>L. teres</u>	11
<u>C. tampicoensis</u>	1
<u>U. tetraasmus</u>	<u>1</u>
	(37)

Area B [N976/W999, N976/W1000, N975/W999, N975/W1000, N974/W1001]

1. Unit N974/W1001

<u>H. o. tropica</u>	931
<u>R. d. dealbatus</u>	225
<u>P. mooreana</u>	4
<u>P. berlanderiana</u>	3
<u>A. stronglylodes</u>	393
<u>M. friabilis</u>	345
<u>M. roemer</u>	3
<u>P. t. texasiana</u>	<u>1</u>
	(1,905)

2. Unit N975/W999

<u>L. teres</u>	(1)
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3. Unit N975/W1000

<u>L. teres</u>	1
<u>L. r. siliquoidea</u>	<u>2</u>
	(3)

4. Unit N976/W999

<u>L. r. siliquoidea</u>	8
<u>L. teres</u>	5
<u>C. tampicoensis</u>	<u>1</u>
	(14)

5. Unit N976/W1000

<u>H. o. tropica</u>	2,245
<u>R. d. dealbatus</u>	228
<u>P. mooreana</u>	112
<u>P. berlandieriana</u>	18
<u>A. strongylodes</u>	255
<u>M. friabilis</u>	225
<u>P. t. texasiana</u>	27
<u>A. plicata</u>	3
<u>L. r. siliquoidea</u>	2
<u>L. teres</u>	1
<u>U. tetralasmus</u>	1
	(3,117)

Area C [N976/W956]

Unit N976/W956

<u>A. plicata</u>	1
<u>L. r. siliquoidea</u>	16
<u>L. teres</u>	16
<u>C. tampicoensis</u>	1
	(34)

Backhoe Trenches

1. BHT #1

L. r. siliquoidea

(2)

2. BHT #4

L. r. siliquoidea
Q. quadrula
L. teres
C. tampicoensis
T. verrucosa

45

2

18

1

1

(67)

3. BHT #4B

L. r. siliquoidea
L. teres

1

1

(2)

Site 41WM258 (continued)
Page 4
Backhoe Trenches

D-36

4. BHT #5A

R. d. dealbatus
L. r. siliquoidea
L. teres

1
7
2
(10)

5. BHT #5B

L. r. siliquoidea
L. teres

7
2
(9)

6. BHT #5E

L. r. siliquoidea

(2)

7. BHT #5F

L. r. siliquoidea

(1)

8. BHT #6A

A. plicata
L. r. siliquoidea

2
5
(7)

Molluscan FaunaGastropoda (9,497)Specimen Numbers

<u>Helicina orbiculata tropica</u>	4,378
<u>Rabdotus dealbatus dealbatus</u>	3,089
<u>Polygyra mooreana</u>	1,344
<u>Praticolella berlandieriana</u>	310
<u>Anguispira strongylodes</u>	238
<u>Mesomphix friabilis</u>	62
<u>Pupoides albilabris</u>	4
<u>Mesodon roemeri</u>	3
<u>Polygyra texasiana texasiana</u>	68
<u>Biomphalaria obstructa</u>	1

Bivalvia (2,440)

<u>Anblema plicata</u>	793
<u>Lampsilis radiata siliquoidea</u>	1,420
<u>Lampsilis teres</u>	148
<u>Cyrtonafas tampicoensis</u>	54
<u>Tritogonia verrucosa</u>	8
<u>Quadrula quadrula</u>	15
<u>Cyclonafas tuberculata</u>	1
<u>Megalonafas gigantea</u>	1

Total number of specimens recovered (11,937)

Test AreasArea A [1000N/989W, 1000N/990W, 1001N/989W, 1001N/990W]1. Unit 1000N/989W

<u>P. berlandieriana</u>	2
<u>A. strongylodes</u>	4
<u>M. friabilis</u>	4
<u>A. plicata</u>	60
<u>L. r. siliquoidea</u>	76
<u>L. teres</u>	4
<u>C. tampicoensis</u>	5
<u>T. verrucosa</u>	2

(157)

2. Unit 1000N/990W

<u>A. plicata</u>	78
<u>L. r. siliquoidea</u>	140
<u>L. teres</u>	9
<u>Q. quadrula</u>	<u>1</u>
	(228)

3. Unit 1001N/989W

<u>H. o. tropica</u>	3,770
<u>R. d. dealbatus</u>	1,906
<u>P. mooreana</u>	1,175
<u>P. berlanderiana</u>	211
<u>A. strongylodes</u>	232
<u>M. friabilis</u>	28
<u>P. albilabris</u>	4
<u>P. t. texasiana</u>	63
<u>M. roemerii</u>	3
<u>A. plicata</u>	31
<u>L. r. siliquoidea</u>	56
<u>L. teres</u>	13
<u>C. tampicoensis</u>	1
<u>B. obstructa</u>	<u>1</u>
	(7,494)

4. Unit 1001N/990W

<u>R. d. dealbatus</u>	1
<u>A. plicata</u>	75
<u>L. r. siliquoidea</u>	73
<u>L. teres</u>	4
<u>C. tampicoensis</u>	1
<u>Q. quadrula</u>	<u>3</u>
	(157)

Area B [1017N/987W, 1018N/987W, 1017N/985W, 1017N/986W, 1018N/985W,
1018N/986W]

1. Unit 1017N/985W

<u>A. plicata</u>	26
<u>L. r. siliquoidea</u>	14
<u>L. teres</u>	2
<u>C. tuberculata</u>	<u>1</u>
	(43)

Site 41WM267 (continued)
 Page 3
 Area B

2. Unit 1017N/986W

<u>H. o. tropica</u>	25
<u>R. d. dealbatus</u>	2
<u>P. mooreana</u>	5
<u>A. plicata</u>	72
<u>L. r. siliquoidea</u>	56
<u>C. tampicoensis</u>	3
<u>Q. quadrula</u>	2
	(165)

3. Unit 1017N/987W

<u>R. d. dealbatus</u>	3
<u>A. strongylodes</u>	2
<u>A. plicata</u>	28
<u>L. r. siliquoidea</u>	91
<u>L. teres</u>	24
<u>C. tampicoensis</u>	9
<u>T. verrucosa</u>	3
<u>Q. quadrula</u>	2
<u>M. gigantea</u>	1
	(163)

4. Unit 1018N/985W

<u>A. plicata</u>	10
<u>L. r. siliquoidea</u>	28
<u>C. tampicoensis</u>	1
	(39)

5. Unit 1018N/986W

<u>R. d. dealbatus</u>	3
<u>A. plicata</u>	51
<u>L. r. siliquoidea</u>	88
<u>L. teres</u>	1
	(143)

6. Unit 1018N/987W

<u>A. plicata</u>	40
<u>L. r. siliquoidea</u>	85
<u>L. teres</u>	7
<u>Q. quadrula</u>	2
	(134)

Area C [1001N/1009W]

1. Unit 1001N/1009W

<u>A. plicata</u>	18
<u>L. r. siliquoidea</u>	100
<u>L. teres</u>	4
<u>Q. quadrula</u>	3
	(125)

Area D [1057N/986.5W, 1057N/987.5W, 1057N/988.5W, 1057N/989.5W,
1058N/986.5W, 1058N/987.5W, 1058N/988.5W, 1058N/989.5W]

1. Unit 1057N/986.5W

<u>H. o. tropica</u>	1
<u>R. d. dealbatus</u>	3
<u>A. plicata</u>	24
<u>L. r. siliquoidea</u>	113
<u>L. teres</u>	15
<u>C. tampicoensis</u>	2
	(158)

2. Unit 1057N/987.5W

<u>H. o. tropica</u>	582
<u>R. d. dealbatus</u>	1,167
<u>P. mooreana</u>	162
<u>P. berlandieriana</u>	96
<u>M. friabilis</u>	30
<u>P. t. texasiana</u>	4
<u>A. plicata</u>	32
<u>L. r. siliquoidea</u>	60
<u>L. teres</u>	8
<u>C. tampicoensis</u>	1
	(2,142)

3. Unit 1057N/988.5W

<u>R. d. dealbatus</u>	1
<u>P. mooreana</u>	2
<u>P. t. texasiana</u>	1
<u>P. berlandieriana</u>	1
<u>A. plicata</u>	116
<u>L. r. siliquoidea</u>	161
<u>L. teres</u>	16

Site 41WM267 (continued)
Page 5
Area D

D-41

<u>C. tampicoensis</u>	7
<u>T. verrucosa</u>	1
<u>Q. quadrula</u>	1
	(307)

4. Unit 1057N/989.5W

<u>R. d. dealbatus</u>	1
<u>A. plicata</u>	16
<u>L. r. siliquoidea</u>	63
<u>L. teres</u>	13
<u>C. tampicoensis</u>	13
<u>T. verrucosa</u>	1
<u>Q. quadrula</u>	1
	(108)

5. Unit 1058N/986.5W

<u>A. plicata</u>	13
<u>L. r. siliquoidea</u>	89
<u>L. teres</u>	7
<u>C. tampicoensis</u>	2
	(111)

6. Unit 1058N/987.5W

<u>R. d. dealbatus</u>	1
<u>A. plicata</u>	50
<u>L. r. siliquoidea</u>	33
<u>L. teres</u>	6
<u>T. verrucosa</u>	1
	(91)

7. Unit 1058N/988.5W

<u>A. plicata</u>	11
<u>L. r. siliquoidea</u>	45
<u>L. teres</u>	7
<u>C. tampicoensis</u>	1
	(64)

Site 41WM267 (continued)
Page 6
Area D

D-42

8. Unit 1058N/989.5W

R. d. dealbatus
A. plicata
L. r. siliquoidea
L. teres
C. tampicoensis

1
42
50
8
7
(108)

SITE 41WM304

D-43

Molluscan Fauna

Gastropoda (1,052)

Specimen Numbers

<u>Helicina orbiculata tropica</u>	441
<u>Rabdotus dealbatus dealbatus</u>	542
<u>Polygyra mooreana</u>	33
<u>Praticolella berlandieriana</u>	4
<u>Pupoides albilabris</u>	1
<u>Polygyra texasiana texasiana</u>	20
<u>Physa virgata</u>	1
<u>Helisoma trivolvis lenta</u>	5
<u>Gyraulus parvus</u>	2
<u>Succinea sp.</u>	3

Bivalvia (99)

<u>Amblema plicata</u>	85
<u>Lampsilis radiata siliquoidea</u>	11
<u>Lampsilis teres</u>	3

Total number of specimens recovered (1,151)

Test Areas

Area A [107N/98W, 107N/99W, 107N/100W, 108N/99W, 108N/100W]

1. Unit 107N/98W

<u>L. r. siliquoidea</u>	1
	(1)

2. Unit 107N/99W

<u>A. plicata</u>	30
	(30)

3. Unit 107N/100W

<u>A. plicata</u>	6
<u>L. r. siliquoidea</u>	1
	(7)

4. Unit 108N/99W

<u>A. plicata</u>	9
<u>L. r. siliquoidea</u>	3
<u>L. teres</u>	2
	(14)

5. Unit 108N/100W

<u>A. plicata</u>	<u>12</u>
	(12)

Area B [117N/99W, 118N/99W, 118N/100W, 119N/99W, 119N/100W]

1. Unit 117N/99N

<u>A. plicata</u>	<u>3</u>
	(3)

2. Unit 117N/100W

<u>A. plicata</u>	<u>1</u>
<u>L. r. siliquidea</u>	<u>4</u>
	(5)

3. Unit 118N/99W

<u>A. plicata</u>	<u>8</u>
<u>L. teres</u>	<u>1</u>
	(9)

4. Unit 118N/100W

<u>A. plicata</u>	<u>4</u>
	(4)

5. Unit 119N/99W

<u>A. plicata</u>	<u>8</u>
	(8)

6. Unit 119N/100W

<u>H. o. tropica</u>	441
<u>R. d. dealbatus</u>	542
<u>P. mooreana</u>	33
<u>P. berlandieriana</u>	4
<u>P. albilabris</u>	1
<u>P. t. texastana</u>	20
<u>P. virgata</u>	1

Site 41WM304 (continued)
Page 3
Area B

D-45

<u>H. t. lenta</u>	5
<u>G. parvus</u>	2
<u>A. plicata</u>	2
<u>S. sp.</u>	3

(1,054)

7. Unit 102W/103W & 105N/125W (General site collection)

<u>A. plicata</u>	1
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(1)

8. Unit 105N/101W

<u>L. r. siliquoidea</u>	1
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(1)

9. Unit 115N/94W

<u>L. r. siliquoidea</u>	1
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(1)

Molluscan FaunaGastropoda (3,704)Specimen Numbers

<u>Helicina orbiculata tropica</u>	1,945
<u>Rabdotus dealbatus dealbatus</u>	1,445
<u>Polygyra mooreana</u>	32
<u>Praticolella berlandieriana</u>	97
<u>Pupoides albilabris</u>	10
<u>Polygyra texasiana texasiana</u>	3
<u>Zonitoides arboreus</u>	8
<u>Physa virgata</u>	3
<u>Helisoma trivolvis lenta</u>	34
<u>Gyraulus parvus</u>	26
<u>Glyphyalinia indentata paucilirata</u>	33
<u>Succinea sp.</u>	4
<u>Strobilops texasiana</u>	59
<u>Mesomphix friabilis</u>	1
<u>Lymnaea humilis</u>	1
<u>Helicodiscus parallelus</u>	1
<u>Rumina decollata</u>	1
<u>Mesodon roemeri</u>	1

Bivalvia (12)

<u>Pisidium casertanum</u>	1
<u>Lampsilis radiata siliquioidea</u>	6
<u>Lampsilis teres</u>	3
<u>Amblema plicata</u>	1
<u>Cretaceous oyster</u>	1

Total number of specimens recovered

(3,716)

* 13 Hackberry Seeds

Test Areas

Area A [999N/1011-1012W, 999N/1017W, 1000N/1011-1012W, 1000N/1017-1018W,
1001N/1012-1013W, 1001N/1017W]

1. Unit 999N/1001W

<u>H. o. tropica</u>	236
<u>R. d. dealbatus</u>	376
<u>P. mooreana</u>	1
<u>P. berlandieriana</u>	18
<u>P. albilabris</u>	1
<u>P. virgata</u>	1
<u>H. t. lenta</u>	4
<u>G. parvus</u>	2
<u>G. i. paucilirata</u>	3

<u>Succinea sp.</u>	3
<u>S. texasiana</u>	5
	(650)

2. Unit 999N/1012W

<u>H. o. tropica</u>	160
<u>R. d. dealbatus</u>	87
<u>P. mooreana</u>	1
<u>P. berlandieriana</u>	3
<u>P. t. texasiana</u>	1
<u>Z. arboreus</u>	1
<u>G. i. paucilirata</u>	1
<u>M. friabilis</u>	1
	(255)

3. Unit 999N/1017W

<u>A. plicata</u>	1
	(1)

4. Unit 1000N/1011W

<u>H. o. tropica</u>	319
<u>R. d. dealbatus</u>	268
<u>P. mooreana</u>	2
<u>P. berlandieriana</u>	16
<u>S. texasiana</u>	2
<u>Z. arboreus</u>	1
<u>P. virgata</u>	1
<u>H. t. lenta</u>	5
<u>G. parvus</u>	4
<u>G. i. paucilirata</u>	4
<u>L. humilis</u>	1
<u>H. parallelus</u>	1
<u>C. oyster</u>	1
	(621)

5. Unit 1000N/1012W

<u>H. o. tropica</u>	305
<u>R. d. dealbatus</u>	163
<u>P. mooreana</u>	3
<u>P. berlandieriana</u>	13
<u>P. albilabris</u>	1
<u>S. texasiana</u>	3
<u>H. t. lenta</u>	2
<u>G. i. paucilirata</u>	4
	(494)

6. Unit 1000N/1017W

Unidentifiable unionid fragment	<u>1</u>
	(1)

7. Unit 1000N/1018W

<u>L. r. siliquoidea</u>	<u>1</u>
	(1)

8. Unit 1001N/1012W

<u>L. r. siliquoidea</u>	<u>1</u>
	(1)

9. Unit 1001N/1013W

<u>H. o. tropica</u>	27
<u>R. d. dealbatus</u>	<u>1</u>
<u>G. f. paucilirata</u>	<u>1</u>
	(29)

10. Unit 1001N/1017W

Unidentifiable unionid fragments	<u>1</u>
	(1)

11. Miscellaneous (Feature samples)

<u>H. o. tropica</u>	149
<u>R. d. dealbatus</u>	16
<u>P. mooreana</u>	4
<u>P. berlandieriana</u>	9
<u>P. albilabris</u>	2
<u>S. texasiana</u>	4
<u>H. t. lenta</u>	1
<u>G. f. paucilirata</u>	1
<u>L. r. siliquoidea</u>	<u>1</u>
	(187)

Area B [981N/1001W, 981N/1002W, 982N/1001W, 982N/1002W]

1. Unit 981N/1001W

<u>H. o. tropica</u>	152
<u>R. d. dealbatus</u>	161
<u>P. mooreana</u>	2
<u>P. berlandieriana</u>	5
<u>P. albilabris</u>	2
<u>S. texasiana</u>	22
<u>H. t. lenta</u>	3
<u>G. parvus</u>	9
<u>R. decollata</u>	1
<u>G. i. paucilirata</u>	1
<u>L. r. siliquoidea</u>	2
<u>Succinea sp.</u>	1
	(361)

2. Unit 981N/1002W

<u>H. o. tropica</u>	91
<u>R. d. dealbatus</u>	104
<u>P. mooreana</u>	8
<u>P. berlandieriana</u>	4
<u>M. roemerii</u>	1
<u>P. t. texasiana</u>	1
<u>Z. arboreus</u>	2
<u>P. virgata</u>	1
<u>G. parvus</u>	1
<u>G. i. paucilirata</u>	5
	(218)

3. Unit 982N/1001W

<u>H. o. tropica</u>	301
<u>R. d. dealbatus</u>	159
<u>P. mooreana</u>	4
<u>P. berlandieriana</u>	22
<u>P. albilabris</u>	4
<u>S. texasiana</u>	21
<u>Z. arboreus</u>	2
<u>H. t. lenta</u>	12
<u>G. parvus</u>	10
<u>G. i. paucilirata</u>	10
<u>L. teres</u>	2
<u>P. casertanum</u>	1
	(548)

Site 41WM328 (continued)
Page 5
Area B

4. Unit 982N/1002W

L. teres
P. t. texasiana
H. o. tropica
R. d. dealbatus
P. mooreana
P. berlanderiana
S. texasiana
Z. arboreus
H. t. lenta
G. i. paucilirata
L. r. siliquoidea

1
1
205
110
7
7
2
2
7
4
1
(347)

Appendix E. Quantitative and Qualitative Characteristics of
The Complete Stemmed Projectile Points

This appendix presents the data utilized in the statistical analysis of the 146 complete projectile points as discussed in Chapter 10.1. The 26 specimens identified as outliers and consequently not utilized in the final analysis are noted. The remaining sixteen specimens presented were recovered during a subsequent phase of investigation and were not included in the statistical analysis. The coding system for the quantitative and qualitative observations is as follows:

Col. 1-3: Site Number
Col. 4: Area of site: A=1, B=2, C=3, etc.
Col. 5-6: Level
Col. 7-8: Tool Category Stemmed Points = 01
Col. 9-10: Catalog Number
Col. 13-14: Formal Type Designation

Perdiz 01	Bulverde 16	Group 7 34
Scallorn eddy 02	Nolan 17	Group 8 36
Scallorn 03	Travis 18	Group 9 37
Darl 04	Wells 19	Group 10 38
Frio 05	Uvalde 20	Unidentified 39
Fairland 06	Martindale 21	Group 11 40
Fairland/Ensor 07	Hoxie 22	Dawson 42
Ensor 08	Angostura 23	Assymmetrical 43
Montell 09	Buda 24	Group 14 44
Marcos 10	Group 1 25	Andice 49
Lange 11	Group 2 26	Gower 50
Williams 12	Group 3 27	
Castroville 13	Group 4 28	
Marshall 14	Group 5 30	
Pedernales 15	Group 6 31	

Col. 15: State of Point - 1 Whole
2 Damaged
3 Fragment
4 Reused as new or other tool type

Col. 16: Burned - 1 Not burned
2 Burned

Col. 17: Blank Type - 1 Bulb or ventral face present
2 Cortex on faces
3 No trace of original surface
4 Reworked older point

Col. 18-47 - Quantitative measurement of point
Distances measured to nearest mm.; weight to nearest .1 gm;
angles to nearest degree.

If a measurement could not be made, a zero was entered.

Col. 48-54 - Point body - Retouched

Col. 48 Type of secondary retouch - 1 Fine
2 Normal
3 Absent

Col. 49 Reworked - 1 Not reworked
2 Reworked

Col. 50 Distal Tip Shape - 0 Missing
1 Rounded
2 Pointed
3 Needle
4 Propeller

Col. 51 Medial Edge - 1 Straight
2 Convex
3 Concave
4 Recurved
5 Mixed

Col. 52 Blade Beveling - 1 One edge
2 Two edges, alternate
3 Two edges, unifacial
4 Two edges, bifacial
5 Other
6 Absent

Col. 53 Serration - 0 Cannot be determined
1 Absent
2 Present

Col. 54 Body Stem Transition - 1 Weak shoulder
2 Strong shoulder
3 Barb
4 Wing
5 Mixed

Col. 55-61 - Stem Characteristics

Col. 55 Stem Edge - 1 Straight
2 Convex
3 Concave
4 Recurved
5 Mixed

- Col. 56 Grinding - 1 Absent
2 Present
- Col. 57 Stem beveling: See codes for blade beveling
- Col. 58 Notching - 1 Corner
2 Side
3 Basal
4 Absent
- Col. 59 Stem Base Shape - 1 Straight 6 Acute
2 Convex 7 U-shaped
3 Concave 8 Unshaped (cortex)
4 Recurved 9 Other
5 Obtuse
- Col. 60 Basal Thinning - 1 Unifacial
2 Bifacial
3 Absent
- Col. 61 Grinding - 1 Absent
2 Present

Site Number	Area	Level	Tool Category	Catalog Number	Type Classification	State of Point	Blank Type	Maximum Length	Maximum Width	Maximum Thickness	Weight (.1 gm)	Stem Length	Base of Stem Width	Neck Width	Mid-Stem Width	Depth of Basal Concavity	Max. Distance Across Shoulder or Wing Tips	Wing Length	Haft Angle	Width at 1/2 Length of Blade	Width at 3/4 Length of Blade	Type of Sec. Retouch	Reworked	Distal Tip Shape	Medial Edge	Blade Beveling	Serration	Blade Stem Transition	Stem Edge Shape	Edge Grinding	Stem Beveling	Notching	Base Shape	Basal Thinning	Basal Grinding	
53 *	2	5	1	57	3	1	1	3	23	12	2	12	5	9	4	8	0	12	0	99	6	3	1	1	2	1	6	2	2	3	1	6	2	1	2	1
53 *	1	5	1	40	7	1	1	3	62	26	6	82	11	26	21	21	0	25	0	0	17	12	2	1	2	2	6	1	2	3	1	6	2	3	2	1
53 *	2	5	1	41	7	1	1	3	44	24	5	45	9	23	15	17	0	22	0	99	14	8	2	1	2	1	3	1	2	3	1	6	2	1	2	1
56	1	4	1	1086	15	1	1	3	72	29	7	140	19	18	18	15	2	29	0	0	21	13	2	1	2	2	6	1	2	1	1	6	4	3	3	1
56 *	6	2	1	543	7	1	1	3	39	22	6	43	13	22	17	17	1	21	0	0	13	7	2	1	2	2	1	1	3	1	6	4	3	2	1	
56 *	4	6	1	343	16	1	1	3	108	45	7	312	18	16	19	16	0	44	0	0	40	27	2	1	2	2	6	1	3	1	1	6	1	1	2	1
56	4	5	1	2200	15	1	1	3	64	35	8	135	18	16	21	19	3	35	0	0	21	12	2	1	2	1	6	1	3	1	1	6	4	3	3	1
56 *	2	1	1	532	3	1	1	3	29	14	4	12	6	10	6	8	0	13	0	85	8	5	2	1	2	1	6	1	3	1	1	6	1	1	3	1
56	2	3	1	1214	6	1	1	3	55	20	7	72	12	18	15	15	2	21	0	0	16	11	2	1	2	2	6	1	3	1	1	6	1	3	3	1
56 *	2	3	1	1213	13	1	1	3	61	37	6	114	12	25	23	24	0	37	0	48	24	12	2	1	3	4	6	1	3	1	1	6	1	2	1	1
56 *	2	4	1	1301	14	1	1	3	57	35	6	104	9	17	16	16	1	35	5	28	29	21	2	1	1	2	6	1	4	1	1	6	3	3	2	1
56	2	4	1	1907	15	1	1	3	63	36	9	161	17	18	20	19	2	36	0	0	28	17	2	1	2	2	6	1	3	1	1	6	4	3	3	1
56	2	4	1	1561	24	1	1	1	94	27	9	232	25	19	17	18	0	27	0	0	23	15	2	1	2	2	6	1	1	1	1	6	4	2	3	1
56	2	5	1	1939	39	1	1	3	58	25	9	129	25	17	16	16	0	25	0	0	17	10	2	1	2	2	6	1	1	1	1	1	4	1	2	1
56	2	6	1	1181	26	1	1	3	59	27	8	102	20	20	16	17	0	26	0	0	19	11	2	1	2	2	6	1	1	3	1	6	4	1	2	1
56	3	9	1	2097	15	1	1	3	47	25	9	85	25	17	16	17	3	26	0	0	17	13	2	1	2	2	6	1	2	2	1	6	4	3	1	1
56 *	3	9	1	138	19	1	1	3	81	24	10	183	30	13	18	16	0	23	0	0	20	14	2	1	1	2	6	1	1	1	1	6	4	2	1	1
56 *	3	8	1	2312	39	1	1	2	92	25	10	190	20	13	13	13	0	21	0	0	22	15	2	1	2	2	6	1	1	4	1	6	4	2	1	1
56 *	3	3	1	172	14	1	1	2	61	39	6	131	11	17	16	17	0	36	6	73	29	19	2	1	2	2	6	1	6	1	1	6	1	2	2	1
56	3	3	1	518	17	1	1	3	69	34	10	204	22	24	22	21	0	33	0	0	25	14	2	1	2	2	6	1	2	3	2	2	4	1	1	1
56	3	4	1	1828	15	1	1	3	71	29	7	116	14	14	17	15	3	28	0	0	16	8	2	1	2	1	6	1	2	1	1	6	4	3	1	1
56	3	4	1	242	13	1	1	3	64	47	9	148	13	25	22	17	0	46	9	53	22	10	2	1	2	1	6	1	4	1	1	6	3	2	3	1
56 *	3	2	1	1422	7	1	1	3	47	28	5	63	10	25	19	21	1	28	0	73	16	12	2	1	1	2	6	1	3	3	1	6	1	3	2	1

Site Number	Area	Level	Tool Category	Catalog Number	Type Classification	State of Point	Blank Type	Maximum Length	Maximum Width	Maximum Thickness	Weight (.1 gm)	Stem Length	Base of Stem Width	Neck Width	Mid-Stem Width	Depth of Basal Concavity	Max. Distance Across Shoulder or Wing Tips	Wing Length	Haft Angle	Width at 1/2 Length of Blade	Width at 3/4 Length of Blade	Type of Sec. Retouch	Reverted	Distal Tip Shape	Medial Edge	Blade Beveling	Serration	Blade Stem Transition	Stem Edge Shape	Edge Grinding	Stem Beveling	Notching	Base Shape	Basal Thinning	Basal Grinding
56	3	4	1	930	17	1	1	68	27	7	119	21	12	15	13	0	26	0	0	18	10	2	1	2	2	1	2	3	1	2	4	2	2	1	
56	3	5	1	456	17	1	1	86	34	9	207	29	17	16	16	0	33	0	0	22	13	2	1	2	2	1	1	2	3	1	1	4	2	2	1
56	3	5	1	2269	16	1	1	54	28	6	83	23	16	22	17	0	28	0	0	13	7	2	1	2	1	1	1	2	1	1	6	4	1	2	1
56	3	5	1	146	10	1	1	81	31	9	186	12	21	17	18	0	30	0	71	23	13	2	1	2	2	1	1	3	1	1	6	1	2	2	1
56	3	5	1	1905	18	1	1	87	23	8	156	22	16	18	16	1	22	0	0	20	12	2	1	2	2	1	1	5	1	6	4	1	2	2	1
56	3	8	1	888	16	1	1	65	25	8	118	17	16	16	15	0	25	0	0	16	9	2	1	2	1	1	1	2	1	1	6	4	1	2	2
56	3	9	1	2243	18	1	1	56	22	8	105	17	16	17	15	0	21	0	0	18	13	2	1	2	2	1	1	5	1	1	6	4	2	2	1
56	3	9	1	1864	18	1	1	56	19	9	95	19	13	15	13	0	19	0	0	15	13	2	1	1	2	1	1	3	1	6	4	2	2	1	
56	3	3	1	712	8	1	1	72	23	6	97	12	22	13	22	0	22	0	0	19	13	2	1	2	2	1	1	3	1	6	2	2	2	2	1
56	3	3	1	859	10	1	1	68	38	10	205	14	23	19	19	0	37	9	96	27	12	2	1	3	4	1	14	3	1	6	1	2	2	1	
56	3	6	1	586	17	1	1	83	29	8	170	22	20	18	18	0	29	0	0	18	10	2	1	2	1	1	1	2	1	2	2	4	1	1	1
56	3	6	1	1007	17	1	1	62	26	8	124	18	16	17	18	0	26	0	0	17	9	2	1	2	1	1	1	1	1	1	2	4	1	1	1
56	3	7	1	1204	24	1	1	84	24	6	139	17	14	14	15	0	21	0	0	22	16	2	1	2	2	1	1	1	1	1	6	4	2	1	1
56	4	6	1	277	17	1	1	51	23	7	76	21	16	14	14	0	23	0	0	13	7	2	2	2	1	1	2	1	1	1	1	1	1	1	1
56	5	7	1	61	21	1	1	46	30	7	75	12	21	16	17	2	30	0	78	19	10	2	1	2	1	1	1	1	1	1	1	1	1	1	1
56	3	7	1	2302	34	1	1	66	22	8	118	21	13	14	14	0	22	0	0	19	12	2	1	2	2	1	1	1	1	1	1	1	1	1	1
56	2	8	1	833	22	1	1	71	25	7	123	18	15	15	13	0	24	0	0	17	12	2	1	2	2	2	2	1	1	1	6	4	1	2	1
56	4	4	1	1838	39	1	1	54	34	7	109	16	22	20	18	1	34	0	0	21	11	2	1	1	2	1	1	3	1	1	6	4	4	3	1
56	5	4	1	1885	18	1	1	69	21	6	99	25	15	19	16	0	21	0	0	14	8	2	1	2	2	1	1	1	1	1	6	4	2	1	1
56	3	5	1	742	28	1	1	54	18	7	55	18	13	14	12	0	18	0	0	11	7	2	1	2	2	1	1	1	1	1	6	4	1	3	1
56	3	7	1	977	28	1	1	62	24	7	101	22	15	16	16	0	23	0	0	15	10	2	1	2	2	1	1	1	1	1	6	4	1	3	1
56 *	5	6	1	2321	39	1	1	88	35	7	163	14	10	14	13	0	35	0	0	20	15	2	1	1	3	1	1	1	1	1	6	4	1	3	1
56 *	2	6	1	1680	39	1	1	92	31	11	235	27	18	22	18	0	28	0	0	25	16	2	1	2	2	1	1	3	1	1	6	4	2	2	1

Site Number	Area	Level	Tool Category	Catalog Number	Type Classification	State of Point	Burned	Blank Type	Maximum Length	Maximum Width	Maximum Thickness	Weight (.1 gm)	Stem Length	Base of Stem Width	Neck Width	Mid-Stem Width	Depth of Basal Concavity	Max. Distance Across Shoulder or Wing Tips	Wing Length	Haft Angle	Width at 1/2 Length of Blade	Width at 3/4 Length of Blade	Type of Sec. Retouch	Reshaped	Distal Tip Shape	Medial Edge	Blade Beveling	Serration	Blade Stem Transition	Stem Edge Shape	Edge Grinding	Stem Beveling	Notching	Base Shape	Basal Thinning	Basal Grinding	
57	3	3	1	92	17	1	1	3	78	28	8	142	18	18	15	14	0	28	0	0	20	12	3	1	2	2	2	2	2	2	2	2	2	2	2	2	2
57	8	4	1	74	5	1	1	3	77	21	6	59	9	21	13	13	1	20	0	81	9	6	2	1	2	2	2	2	2	2	2	2	2	2	2	2	
57	9	1	1	39	15	1	1	3	53	29	8	100	16	18	17	15	1	29	0	0	20	11	2	1	2	2	2	2	2	2	2	2	2	2	2	2	
57	0	0	1	80	15	1	1	3	56	25	7	87	17	15	17	16	2	25	0	0	16	10	2	1	2	1	6	1	2	1	1	6	4	3	2	1	
57	0	0	1	73	15	1	1	1	56	23	7	74	14	14	11	11	3	21	0	0	18	12	2	1	2	2	2	2	2	2	2	2	2	2	2	2	
57	0	0	1	142	13	1	1	3	55	34	8	113	14	21	19	20	0	34	0	75	18	10	2	1	1	1	6	1	3	1	1	6	1	2	1	1	
57 *	7	4	1	112	5	1	1	3	31	25	6	31	10	25	15	22	2	22	0	0	13	7	2	1	2	2	2	2	2	2	2	2	2	2	2	2	
57	4	3	1	123	16	1	1	3	59	27	7	119	15	15	16	15	0	27	0	0	21	15	2	1	2	2	2	2	2	2	2	2	2	2	2	2	
57	7	3	1	149	44	1	1	3	75	29	7	127	14	17	18	17	0	29	0	0	22	13	1	1	2	2	2	2	2	2	2	2	2	2	2	2	
57	3	3	1	91	39	1	1	3	64	30	8	142	16	17	16	14	0	30	0	0	24	12	1	1	3	4	6	1	2	3	1	6	4	3	2	1	
57	2	4	1	162	15	1	1	3	50	32	8	87	14	16	19	17	2	32	0	0	19	10	2	1	2	1	6	1	2	1	1	6	4	3	1	1	
57	2	4	1	161	15	1	1	3	59	29	7	94	15	17	17	18	3	29	0	0	18	10	2	1	2	2	6	1	2	1	1	6	4	3	1	1	
57	4	3	1	183	15	1	1	2	70	28	8	116	17	19	18	16	2	27	0	0	17	10	2	1	2	2	6	1	2	1	2	1	6	4	3	1	
57	3	5	1	47	15	1	1	3	58	36	9	126	20	17	19	18	3	36	0	0	20	10	2	1	3	4	6	1	2	1	1	6	4	3	1	1	
57	4	3	1	163	15	1	1	3	75	36	8	148	20	16	23	20	3	36	0	0	21	11	2	1	2	1	1	1	2	2	1	6	4	3	3	1	
57 *	1	4	1	56	15	1	1	3	66	32	7	123	22	18	21	20	6	33	0	0	20	11	2	1	2	1	6	1	2	2	1	6	3	3	1	1	
57	4	3	1	21	15	1	1	3	82	25	9	137	24	14	17	16	4	25	0	0	17	9	2	1	2	2	6	1	2	1	1	6	4	3	3	1	
57	4	3	1	19	15	1	1	3	63	32	10	125	14	11	15	13	2	32	0	0	19	11	2	1	2	1	6	1	2	1	1	6	4	3	3	1	
57	3	4	1	133	16	1	1	3	64	28	7	112	16	19	17	16	1	27	0	0	19	11	2	1	2	2	6	1	2	3	1	6	4	3	3	1	
57	3	3	1	27	11	1	1	3	80	31	7	169	13	21	18	18	0	29	0	0	25	15	2	1	2	2	6	1	2	1	1	6	4	2	1	1	
57	2	5	1	44	14	1	1	3	65	37	8	158	13	21	20	18	1	36	0	0	26	18	2	1	3	4	6	1	3	1	1	6	3	3	1	1	
73	5	8	1	72	15	1	2	3	48	34	8	96	15	15	16	17	3	34	0	0	25	16	2	1	2	2	6	1	3	2	1	6	1	3	1	1	
73	1	7	1	29	39	1	1	3	64	27	8	105	13	20	18	19	0	27	0	0	19	10	2	1	2	2	6	1	2	2	1	6	4	2	2	1	
73	2	10	1	28	15	1	1	3	90	32	8	199	20	17	15	15	3	30	0	0	24	19	2	1	2	4	6	1	3	1	1	6	4	3	1	1	

Site Number	Area	Level	Tool Category	Catalog Number	Type Classification	State of Point	Burned	Blank Type	Maximum Length	Maximum Width	Maximum Thickness	Weight (.1 gm)	Stem Length	Base of Stem Width	Neck Width	Mid-Stem Width	Depth of Basal Concavity	Max. Distance Across Shoulder or Wing Tips	Wing Length	Haft Angle	Width at 1/2 Length of Blade	Width at 3/4 Length of Blade	Type of Sec. Retouch	Reworked	Distal Tip Shape	Medial Edge	Blade Beveling	Serration	Blade Stem Transition	Stem Edge Shape	Edge Grinding	Stem Beveling	Notching	Base Shape	Basal Thinning	Basal Grinding
73	2	10	1	27	15	1	1	3	75	31	10	208	15	17	19	18	3	31	0	0	28	19	2	1	2	2	6	1	2	1	1	6	4	3	3	1
73	2	17	1	18	15	1	1	3	51	26	8	90	16	18	17	17	2	26	0	0	18	11	2	1	2	2	6	1	2	3	1	6	4	3	1	1
73	2	15	1	23	15	1	1	3	84	26	8	161	19	18	15	15	3	26	0	0	19	11	2	1	2	2	6	1	2	3	1	6	4	3	3	1
73	2	13	1	71	15	1	1	3	65	29	7	135	17	18	17	18	2	29	0	0	23	19	2	1	2	2	6	1	2	1	1	6	4	3	1	1
73	2	15	1	65	18	1	1	3	66	22	9	111	21	17	18	18	0	22	0	0	16	9	2	1	2	2	6	1	1	1	1	6	4	1	2	1
73	2	13	1	14	28	1	1	3	54	26	6	67	16	17	16	16	0	26	0	0	15	7	2	1	3	4	6	1	2	2	1	6	4	1	1	1
73	2	19	1	42	44	1	1	3	66	28	9	146	20	14	15	15	0	28	0	0	22	13	2	1	2	2	6	1	2	1	1	6	4	1	2	1
73	3	10	1	66	18	1	1	3	51	18	7	56	17	16	15	16	1	18	0	0	11	7	2	1	2	1	6	1	1	1	1	6	4	3	2	1
73	0	0	1	4	15	1	1	3	54	28	7	87	13	16	16	16	3	28	0	0	23	15	2	1	2	2	6	1	3	1	1	6	4	3	1	1
73	0	0	1	3	15	1	1	2	70	36	9	193	18	20	20	20	3	36	0	0	31	18	2	1	1	2	6	1	3	1	1	6	4	3	1	1
73	0	0	1	46	15	1	1	3	45	27	7	74	17	19	18	18	4	27	0	0	18	11	2	1	1	2	6	1	2	1	1	6	4	3	1	1
73	0	0	1	7	16	1	1	3	53	31	7	109	15	19	18	18	0	31	0	0	22	12	2	1	2	2	6	1	3	1	1	6	4	1	2	1
73 *	0	0	1	59	13	1	1	3	55	38	10	151	8	23	21	21	0	38	0	0	28	15	2	1	2	2	6	1	3	1	1	6	1	2	2	1
73	0	0	1	35	18	1	1	3	55	20	8	74	18	12	15	15	0	20	0	0	14	8	2	1	2	2	6	1	1	1	1	6	4	1	3	1
73 *	2	2	1	10	13	1	1	3	60	37	7	125	14	26	24	25	2	37	0	0	24	14	2	1	2	4	6	1	3	1	1	6	4	1	1	1
304	0	0	1	32	39	1	1	3	61	25	7	83	14	12	13	11	1	25	0	0	17	8	2	1	2	2	6	1	2	3	1	1	4	3	2	1
304	0	0	1	2	43	1	1	3	80	26	10	159	22	17	17	13	0	25	0	0	16	10	2	1	2	2	6	1	5	1	6	4	2	3	1	
304	2	2	1	71	18	1	1	3	60	22	8	91	19	16	17	15	0	22	0	0	13	8	2	1	2	2	6	1	5	1	1	6	4	1	3	1
304	0	0	1	24	21	1	1	3	40	31	7	62	9	18	13	14	1	31	4	65	20	13	2	1	2	2	6	1	4	1	1	6	1	3	2	1
304	1	2	1	73	39	1	1	3	68	27	9	163	18	17	17	14	1	22	0	0	24	18	2	1	4	2	2	1	1	3	2	6	4	3	3	1
304	2	5	1	33	16	1	1	3	71	32	9	178	21	17	17	15	0	32	0	0	25	14	2	1	3	4	6	1	2	1	1	6	4	1	3	1
304	1	6	1	34	16	1	1	3	70	32	8	142	20	14	15	14	0	32	0	0	19	9	2	1	2	2	6	1	2	1	1	6	4	1	2	1
304	0	0	1	39	44	1	1	2	47	24	8	82	15	18	17	17	0	23	0	0	19	13	2	1	2	2	6	1	5	1	1	6	4	1	1	1
304	0	0	1	45	18	1	1	3	49	22	9	106	13	19	18	18	0	22	0	0	17	11	2	1	2	2	3	1	1	1	1	6	4	1	2	1

Site Number	Area	Level	Tool Category	Catalog Number	Type Classification	State of Point	Blank Type	Maximum Length	Maximum Width	Maximum Thickness	Weight (.1 gm)	Stem Length	Base of Stem Width	Neck Width	Mid-Stem Width	Depth of Basal Concavity	Max. Distance Across Shoulder or Wing Tips	Wing Length	Haft Angle	Width at 1/2 Length of Blade	Width at 3/4 Length of Blade	Type of Sec. Retouch	Reworked	Distal Tip Shape	Medial Edge	Blade Beveling	Serration	Blade Stem Transition	Stem Edge Shape	Edge Grinding	Stem Beveling	Notching	Base Shape	Basal Thinning	Basal Grinding	
267	4	64	1	743	37	1	1	3	65	28	10	202	14	16	17	17	0	26	0	0	24	16	2	1	2	2	6	1	5	1	1	6	4	2	2	1
267	1	12	1	266	39	1	1	3	54	27	10	136	13	15	17	17	1	26	0	0	21	15	2	1	1	2	6	1	5	4	1	6	4	2	1	1
267	0	0	1	273	18	1	1	3	62	22	7	104	13	15	16	16	0	19	0	0	20	13	2	1	2	2	6	1	1	1	1	6	4	2	1	1
267	2	18	1	729	34	1	1	3	65	21	8	87	19	10	10	10	0	21	0	0	14	7	2	1	2	2	6	1	2	1	1	6	4	2	3	1
267	4	58	1	269	25	1	1	3	68	20	9	105	16	13	14	9	0	20	0	0	16	10	2	1	2	2	6	1	1	1	1	6	4	1	2	1
267	1	13	1	279	36	1	2	3	63	17	7	77	15	11	12	12	0	11	0	0	14	8	2	1	2	2	6	1	1	3	1	6	4	2	3	1
267	4	60	1	725	25	1	1	3	61	20	8	110	18	9	15	9	1	19	0	0	17	13	2	1	2	2	3	1	1	1	1	6	4	3	2	1
267	0	0	1	258	15	1	1	3	80	39	9	219	20	20	16	19	4	30	0	0	27	18	2	1	2	4	2	1	2	2	1	6	4	3	3	1
267	2	13	1	716	30	1	1	3	44	17	6	48	15	14	13	12	0	16	0	0	13	9	2	1	2	2	1	1	1	3	1	6	4	2	2	1
267	0	0	1	242	28	1	1	3	59	24	8	94	17	18	16	16	0	24	0	0	15	10	2	1	2	1	2	1	2	1	1	6	4	1	3	1
267	0	0	1	234	28	1	1	3	67	23	7	92	21	15	15	14	0	23	0	0	12	8	2	1	2	2	6	1	2	1	1	6	4	1	3	1
267	2	16	1	49	28	1	1	3	66	20	7	99	15	14	13	13	0	19	0	0	17	12	2	1	2	2	6	1	5	3	1	6	4	1	1	1
267	4	72	1	277	25	1	1	3	72	23	9	138	20	16	15	13	0	21	0	0	17	12	2	1	2	2	1	1	5	3	1	6	4	1	1	1
267	4	58	1	724	25	1	1	3	70	20	7	100	16	16	15	14	0	19	0	0	17	11	2	1	2	2	2	1	5	4	2	6	4	2	3	1
267	0	0	1	709	25	1	1	3	55	20	7	78	14	15	15	16	0	20	0	0	16	12	2	1	2	2	2	1	1	1	1	6	4	1	3	1
267	4	60	1	728	42	1	1	2	63	19	8	80	18	14	15	15	0	19	0	0	13	9	2	1	2	2	6	1	1	1	1	6	4	8	3	1
267	0	0	1	244	42	1	1	2	64	22	9	118	22	13	16	14	0	22	0	0	18	12	2	1	2	2	1	1	5	4	2	6	4	8	3	1
267	2	22	1	737	25	1	1	3	72	22	9	126	20	16	16	15	0	22	0	0	18	10	2	1	2	2	1	1	1	3	2	6	4	2	3	1
267	0	0	1	764	22	1	1	3	60	22	9	131	16	19	17	17	1	21	0	0	19	15	2	1	2	2	2	2	5	4	2	2	4	3	3	2
267	4	70	1	280	22	1	1	3	77	30	9	179	17	17	19	16	0	30	0	0	20	15	2	1	2	2	4	2	3	1	2	6	4	1	3	2
267	0	0	1	255	15	1	1	3	77	27	9	148	21	17	18	18	7	27	0	0	18	12	2	1	1	1	6	1	2	1	1	6	4	3	3	1
267	1	8	1	245	13	1	1	3	71	27	7	105	17	22	18	18	0	27	0	0	16	7	2	1	2	1	2	1	2	1	1	6	4	2	3	1
267	1	19	1	107	43	1	1	3	59	24	12	120	19	13	16	14	0	23	0	1	18	10	2	1	2	2	6	1	2	1	1	6	4	1	1	1

Site Number	Area	Level	Tool Category	Catalog Number	Type Classification	State of Point	Blank Type	Maximum Length	Maximum Width	Maximum Thickness	Weight (.1 gm)	Stem Length	Base of Stem Width	Neck Width	Mid-Stem Width	Depth of Basal Concavity	Max. Distance Across Shoulder or Wing Tips	Wing Length	Haft Angle	Width at 1/2 Length of Blade	Width at 3/4 Length of Blade	Type of Sec. Retouch	Reworked	Distal Tip Shape	Medial Edge	Blade Beveling	Serration	Blade Stem Transition	Stem Edge Shape	Edge Grinding	Stem Beveling	Notching	Base Shape	Basal Thinning	Basal Grinding	
304	0	0	1	56	17	1	1	3	48	24	7	75	18	17	16	14	0	24	0	0	14	7	2	1	2	1	6	1	2	3	1	2	4	1	3	1
304	2	3	1	65	18	1	1	3	72	23	10	137	20	12	18	15	0	22	0	0	18	12	2	1	2	2	6	1	1	1	6	4	1	2	1	
304	0	0	1	43	18	1	1	3	72	20	9	111	22	15	16	14	0	20	0	0	13	9	2	1	2	2	3	1	1	1	6	4	3	3	1	
304	2	2	1	54	18	1	1	3	50	19	9	67	20	15	16	14	0	19	0	0	12	6	2	1	2	2	6	1	1	3	1	1	4	1	1	1
328	0	0	1	10	7	1	1	3	61	26	6	81	12	22	16	16	2	26	0	67	17	11	2	1	2	1	6	1	3	3	1	6	1	3	1	1
328 *	2	20	1	8	39	1	1	3	59	34	6	111	8	12	15	13	0	30	0	0	27	15	2	1	2	2	6	1	2	1	1	6	4	2	1	1
328	2	20	1	12	39	1	1	3	66	34	8	152	23	16	18	16	0	34	0	0	22	15	2	1	2	2	6	1	2	1	1	6	4	2	3	1
124	2	18	1	1	15	1	1	3	62	22	8	86	22	14	16	17	3	22	0	0	13	8	2	1	2	1	6	1	2	2	1	6	4	3	1	1
124 *	0	0	1	24	3	1	1	1	27	13	8	6	8	11	6	8	0	13	0	86	7	4	2	1	2	1	6	1	3	1	1	6	1	1	3	1
124	1	36	1	22	13	1	1	3	62	27	8	89	12	18	16	17	1	27	0	0	15	9	2	1	2	4	6	1	3	1	1	6	4	3	1	1
124 *	1	18	1	4	8	1	1	3	32	22	5	33	10	22	15	17	0	21	0	99	14	8	2	1	2	2	6	1	2	4	1	6	2	2	1	1
124	1	17	1	3	4	1	1	3	49	16	5	39	12	14	13	14	2	16	0	0	11	6	2	1	2	2	2	1	1	5	1	6	4	3	3	1
124	1	18	1	6	7	1	1	3	46	21	6	53	14	17	13	15	3	21	0	0	14	9	2	1	2	2	6	2	2	1	1	6	4	3	3	1
258 *	2	3	1	1	1	1	1	1	44	13	3	15	7	2	5	3	0	12	0	0	11	6	2	1	2	2	6	1	3	1	1	6	4	9	3	1
258 *	1	4	1	20	3	1	1	2	32	14	3	11	6	9	6	7	0	13	0	0	11	6	1	1	2	2	6	2	3	1	1	6	1	2	1	1
258 *	1	6	1	4	3	1	1	3	23	8	2	1	5	7	3	3	1	8	0	99	5	3	1	1	2	2	6	2	2	3	1	6	2	3	3	1
258 *	1	8	1	14	4	1	1	3	51	16	6	45	10	12	12	10	1	16	0	0	16	6	2	1	2	1	6	2	2	1	1	6	4	3	3	1
267	0	0	1	236	39	1	1	3	61	26	9	136	17	14	14	11	0	25	0	0	20	15	2	2	1	2	6	1	1	3	1	6	4	3	3	1
267	1	13	1	250	39	1	1	3	77	32	11	171	16	15	16	13	1	29	0	0	21	11	2	1	2	4	6	1	1	3	1	6	4	3	1	1
267	0	0	1	730	39	1	1	3	62	21	7	88	17	13	15	14	0	21	0	0	16	9	2	1	2	2	6	1	1	3	1	6	4	2	2	1
267	4	58	1	292	25	1	1	3	65	21	8	106	18	17	14	15	0	21	0	0	16	10	2	1	2	2	6	1	1	3	1	6	4	1	3	1
267	4	64	1	746	39	1	1	3	61	21	7	93	13	13	13	12	0	22	0	0	18	11	2	1	2	2	6	1	2	3	1	6	4	1	3	1
267	4	64	1	61	18	1	1	3	66	22	6	87	20	13	15	15	0	21	0	0	16	11	2	1	2	2	1	1	1	1	1	6	4	1	1	1

Site Number	Area	Level	Tool Category	Catalog Number	Type Classification	State of Point	Burned	Blank Type	Maximum Length	Maximum Width	Maximum Thickness	Weight (.1 gm)	Stem Length	Base of Stem Width	Neck Width	Mid-Stem Width	Depth of Basal Concavity	Max. Distance Across Shoulder or Wing Tips	Wing Length	Haft Angle	Width at 1/2 Length of Blade	Width at 3/4 Length of Blade	Type of Sec. Retouch	Reworked	Distal Tip Shape	Medial Edge	Blade Beveling	Serration	Blade Stem Transition	Stem Edge Shape	Edge Grinding	Stem Beveling	Notching	Base Shape	Basal Thinning	Basal Grinding			
267	4	62	1	238	28	1	1	3	75	19	7	90	18	15	13	12	0	19	0	0	14	9	2	1	2	1	2	1	1	1	1	1	1	1	1	1			
267	0	0	1	58	43	1	1	3	87	24	6	159	23	17	19	17	0	22	0	0	23	15	2	1	2	2	6	1	1	1	1	1	1	1	1	1			
267 *	4	64	1	702	43	1	1	3	97	28	11	225	20	11	16	14	0	27	0	0	21	13	2	1	2	2	6	1	1	1	1	1	1	1	1	1			
267	0	0	1	275	27	1	1	3	67	20	7	94	25	13	19	17	0	20	0	0	16	9	2	1	2	2	6	1	1	1	1	1	1	1	1	1			
267	0	0	1	263	27	1	1	3	65	22	7	105	17	16	20	18	1	22	0	0	18	11	2	1	2	2	6	1	1	1	1	1	1	1	1	1			
267	2	12	1	284	14	1	1	2	68	34	5	104	12	18	15	17	0	34	7	55	21	11	2	1	2	2	6	1	4	1	1	1	1	1	1	1			
Observations from complete projectile points recovered from subsequent phase of investigations.																																							
267	4	0	1	1072	16	1	1	3	54	29	8	99	22	15	18	16	0	29	0	0	20	11	2	1	2	5	2	1	1	1	1	1	1	1	1	1	1		
267	4	68	1	1061	28	1	1	3	69	21	8	109	15	16	15	15	0	21	0	0	17	10	2	1	2	4	6	1	1	1	1	1	1	1	1	1	1		
61	1	0	1	75	22	1	1	3	68	27	7	128	13	17	17	16	1	27	0	0	20	15	2	1	2	5	6	2	2	3	1	1	1	1	1	1	1		
61	1	0	1	66	16	1	1	3	59	32	8	111	20	15	20	18	0	32	0	0	20	12	2	1	2	2	6	1	3	5	1	1	1	1	1	1	1		
126	1	6	1	301	8	1	1	3	47	26	6	67	8	21	18	17	0	26	0	0	18	11	2	1	1	2	6	1	3	3	1	1	1	1	1	1	1		
360	0	0	1	445	50	1	1	3	44	22	7	70	17	16	19	19	4	22	0	0	18	13	2	1	1	2	6	1	1	1	5	6	6	3	1	1	1		
404	0	4	1	1042	15	1	1	3	72	29	9	136	18	20	18	18	3	29	0	0	22	13	2	1	2	5	6	1	3	2	1	1	1	1	1	1	1		
404	0	4	1	351	39	1	1	4	98	26	8	237	10	20	24	23	3	24	0	0	26	19	2	1	2	2	6	1	1	1	2	1	1	1	1	1	1		
404	0	4	1	423	3	1	2	3	18	10	3	5	6	10	6	8	0	9	0	0	6	3	2	1	2	1	6	1	2	2	3	1	1	1	1	1	1		
404	0	0	1	197	1	1	1	3	21	10	2	5	5	1	4	3	0	10	0	0	8	6	2	1	2	2	6	1	2	2	2	1	1	1	1	1	1		
404	0	1	1	15	1	1	1	3	23	12	3	7	6	2	4	4	0	12	0	0	9	6	2	1	2	2	6	1	4	3	1	1	1	1	1	1	1		
404	0	5	1	1228	39	1	1	3	50	23	8	68	14	15	18	15	0	23	0	0	17	10	2	1	2	2	6	1	2	1	3	1	1	1	1	1	1		

Site Number	Area	Level	Tool Category	Catalog Number	Type Classification	State of Point	Burned	Blank Type	Maximum Length	Maximum Width	Maximum Thickness	Weight (.1 gm)	Stem Length	Base of Stem Width	Neck Width	Mid-Stem Width	Depth of Basal Concavity	Max. Distance Across Shoulder or Wing Tips	Wing Length	Haft Angle	Width at 1/2 Length of Blade	Width at 3/4 Length of Blade	Type of Sec. Retouch	Re-worked	Distal Tip Shape	Medial Edge	Blade Beveling	Serration	Blade Stem Transition	Stem Edge Shape	Edge Grinding	Stem Beveling	Notching	Base Shape	Basal Thinning	Basal Grinding
404	0	4	1	881	15	1	1	3	51	23	7	77	17	20	19	17	3	23	0	0	17	11	2	1	2	5	6	1	21	3	1	6	4	3	1	
404	0	3	1	1023	3	1	1	3	23	12	3	5	6	12	6	5	0	9	0	0	6	4	2	1	2	1	6	1	22	3	1	6	1	1	1	
404	0	7	1	666	16	1	1	3	58	27	8	97	17	17	19	17	0	27	0	0	18	9	2	1	2	5	6	1	21	3	1	6	4	1	1	
404	0	0	1	332	50	1	1	3	34	19	3	13	6	6	6	6	0	19	4	0	10	6	2	1	2	3	6	2	44	1	1	6	1	9	1	

*Outliers which were not included in statistical analyses.

APPENDIX F

Analysis of Variance Tables of Continuous Attributes of Projectile Points from the North Fork and Granger Reservoirs

The following tables represent two-way analyses of variance obtained for selected non-redundant continuous attributes of the projectile points from the North Fork and Granger Reservoir assemblages. Multiple classification analysis (MCA) tables accompany each ANOVA table. Recommended SPSS procedures (Nie et.al. 1975) were utilized to obtain these tables.

Legend:

Temporal Period

- 1 = Twin Sisters Phase
- 2 = Late San Marcos Phase
- 3 = Early San Marcos Phase
- 4 = Round Rock Phase
- 5 = Clear Fork Phase
- 6 = San Geronimo Phase

Reservoir

- 1 = North Fork
- 2 = Granger

MAXIMUM WIDTH BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	185.427	6	30.904	69.501	.000
Temporal Period	139.570	5	27.914	62.776	.000
Reservoir	21.324	1	21.324	47.956	.000
2-Way Interactions	6.053	5	1.211	2.722	.020
Explained	191.479	11	17.407	39.147	.000
Residual	167.193	376	.445		
Total	358.672	382	.927		

388 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .13

Variable + Category	N	Unadjusted DEV ÷ N ETA	Adjusted for Independents DEV ÷ N BETA
Temporal Period			
1	64	- .71	- .72
2	22	1.01	.90
3	32	1.61	1.52
4	74	.36	.27
5	168	- .32	- .28
6	28	- .07	.13
		.68	.63
Reservoir			
1	291	.20	.14
2	97	- .60	- .43
		.36	.26

BLADE WIDTH AT 1/2 ITS LENGTH BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	65.904	6	10.984	17.932	.000
Temporal Period	59.468	5	11.984	19.417	.000
Reservoir	6.109	1	6.109	9.973	.002
2-Way Interactions	3.688	5	.738	1.204	.308
Explained	69.593	11	6.327	10.32-	.000
Residual	132.923	217	.613		
Total	202.516	228	.888		

229 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .08

Variable + Category	N	Unadjusted DEV ÷ N ETA	Adjusted for Independents DEV ÷ N BETA
<u>Temporal Period</u>			
1	36	-.92	-.95
2	13	.78	.74
3	21	.77	.73
4	41	.26	.19
5	94	-.13	-.11
6	18	.24	.40
		.54	.54
<u>Reservoir</u>			
1	168	.10	.11
2	62	-.28	-.28
		.18	.18

BLADE WIDTH AT 3/4 ITS LENGTH BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	33.03	6	5.505	7.372	.001
Temporal Period	32.977	5	6.595	8.832	.000
Reservoir	.708	1	.708	.949	.331
2-Way Interactions	5.389	5	1.078	1.443	.210
Explained	38.419	11	3.493	4.677	.000
Residual	162.802	218	.747		
Total	201.221	229	.879		

230 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .06

Variable + Category	N	Unadjusted DEV $\neq$ N ETA	Adjusted for Independents DEV $\neq$ N BETA
Temporal Period			
1	36	- .72	- .73
2	13	.41	.39
3	27	.37	.36
4	41	.11	.09
5	95	- .06	- .05
6	18	.62	.68
		.40	.41
Reservoir			
1	168	.01	.04
2	62	- .03	- .10
		.02	.06

MAXIMUM THICKNESS BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	83.895	6	13.983	30.685	.000
Temporal Period	83.745	5	16.749	36.657	.000
Reservoir	.910	1	.910	1.996	.158
2-Way Interactions	3.937	5	0.787	1.728	.127
Explained	87.832	11	7.985	17.523	.000
Residual	222.824	489	.456		
Total	310.656	500	.621		

501 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .09

Variable + Category	N	Unadjusted DEV # N ETA	Adjusted for Independents DEV # N BETA
Temporal Period			
1	98	- .71	- .71
2	39	- .31	- .32
3	52	- .15	- .16
4	88	.32	.30
5	193	.22	.23
6	31	.59	.63
		.52	.53
Reservoir			
1	383	- .01	.02
2	118	.03	- .08
		.02	.06

BLADE LENGTH BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	21.988	6	3.665	4.927	.000
Temporal Period	20.409	5	4.082	5.487	.000
Reservoir	.601	1	.601	.808	.370
2-Way Interactions	5.290	5	1.058	1.422	.217
Explained	27.278	11	2.480	3.334	.000
Residual	160.675	216	.744		
Total	187.953	227	.828		

228 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .03

Variable + Category	N	Unadjusted DEV $\neq$ N ETA	Adjusted for Independents DEV $\neq$ N BETA
Temporal Period			
1	34	-.61	-.60
2	13	.48	.49
3	27	.34	.35
4	41	.02	.04
5	95	-.02	-.03
6	18	.38	.33
		.34	.33
Reservoir			
1	167	-.05	-.03
2	61	.14	.09
		.09	.06

WEIGHT BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	35.552	6	5.925	9.021	.000
Temporal Period	33.313	5	6.663	10.143	.000
Reservoir	3.473	1	3.473	5.287	.023
2-Way Interactions	6.322	4	1.581	2.406	.052
Explained	41.874	10	4.187	6.375	.000
Residual	105.094	160	.657		
Total	146.968	170	.865		

171 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .01

Variable + Category	N	Unadjusted DEV $\neq$ N ETA	Adjusted for Independents DEV $\neq$ N BETA
Temporal Period			
1	22	-1.06	-1.08
2	7	.56	.46
3	13	.13	.11
4	33	.26	.19
5	80	.08	.05
6	16	.42	.55
		.47	.48
Reservoir			
1	119	.08	.10
2	52	-.17	-.23
		.12	.17

NECK WIDTH BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	82.302	6	13.717	33.670	.000
Temporal Period	57.778	5	11.556	28.365	.000
Reservoir	14.116	1	14.116	34.650	.000
2-Way Interactions	6.366	5	1.273	3.125	.009
Explained	88.668	11	8.061	19.786	.000
Residual	210.216	516	.407		
Total	298.884	527	.567		

528 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .21

Variable + Category	N	Unadjusted DEV # N ETA	Adjusted for Independents DEV # I: BETA
Temporal Period			
1	104	- .33	- .36
2	44	.52	.48
3	51	.74	.69
4	92	.26	.20
5	206	- .22	- .18
6	31	- .13	.01
		.48	.44
Reservoir			
1	404	.12	.10
2	124	- .39	- .31
		.29	.23

MID-STEM WIDTH BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	84.563	6	14.094	41.413	.000
Temporal Period	66.651	5	13.330	39.169	.000
Reservoir	7.985	1	7.985	23.463	.000
2-Way Interactions	4.592	5	.918	2.699	.020
Explained	89.155	11	8.105	23.816	.000
Residual	168.801	496	.340		
Total	257.956	507	.509		

508 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .13

Variable + Category	N	Unadjusted DEV ÷ N ETA	Adjusted for Independents DEV ÷ N BETA
Temporal Period			
1	99	- .02	- .04
2	41	.78	.75
3	50	.74	.70
4	87	.04	- .01
5	200	- .35	- .32
6	31	- .02	.09
		.54	.51
Reservoir			
1	387	.10	.07
2	121	- .34	- .24
		.26	.19

STEM LENGTH BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	244.651	6	40.775	109.701	.000
Temporal Period	243.554	5	48.711	131.051	.000
Reservoir	1.849	1	1.849	4.975	.026
2-Way Interactions	5.638	5	1.128	3.034	.010
Explained	250.289	11	22.754	61.216	.000
Residual	189.935	511	.372		
Total	440.224	522	.843		

523 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .11

Variable + Category	N	Unadjusted DEV ≠ N ETA	Adjusted for Independents DEV ≠ N BETA
Temporal Period			
1	104	-1.02	-1.03
2	45	- .69	- .70
3	53	- .64	- .66
4	88	.56	.53
5	202	.54	.55
6	31	.44	.49
		.74	.75
Reservoir			
1	400	- .03	.03
2	123	.08	- .11
		.05	.07

BASE OF STEM WIDTH BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	188.503	6	31.417	68.073	.000
Temporal Period	150.631	5	30.126	65.275	.000
Reservoir	17.233	1	17.233	37.340	.000
2-Way Interactions	4.650	5	.930	2.015	.075
Explained	193.154	11	17.559	38.047	.000
Residual	203.071	440	.462		
Total	396.224	451	.879		

452 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .15

Variable + Category	N	Unadjusted DEV ÷ N ETA	Adjusted For Independents DEV ÷ N BETA
Temporal Period			
1	67	.51	.46
2	36	1.18	1.12
3	46	1.04	.98
4	77	-.34	-.42
5	197	-.47	-.43
6	29	-.18	-.01
		.66	.62
Reservoir			
1	335	.17	.12
2	117	-.49	-.35
		.31	.22

DEPTH OF BASAL CONCAVITY BY TEMPORAL PERIOD BY RESERVOIR

Source of Variation	Sum of Squares	DF	Mean Square	F	Sig. of F
Main Effects	305.923	6	50.987	83.284	.000
Temporal Period	286.451	5	57.290	93.579	.000
Reservoir	.412	1	.412	.673	.413
2-Way Interactions	1.348	5	.270	.440	.820
Explained	307.271	11	27.934	45.628	.000
Residual	331.819	542	.612		
Total	639.090	553	1.156		

554 Cases Were Processed

MULTIPLE CLASSIFICATION ANALYSIS

Grand Mean = .11

Variable + Category	N	Unadjusted DEV ÷ N ETA	Adjusted for Independents DEV ÷ N BETA
Temporal Period			
1	114	.12	.11
2	45	.73	.73
3	53	-.65	-.65
4	93	1.37	1.36
5	218	-.61	-.60
6	31	-.24	-.22
		.17	.03

APPENDIX G:

LITHIC DEBITAGE AND DEBRIS TABLES
FOR PRIMARY CONTRACT SITES

Table G-1
Lithic Debitage and Debris, Site 41WM53 - Area A

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
Surface		1	7	20	61			89 - 1.19		85					2		176 - 1.24	
1	1	7	35	80	327		2	452 - 6.05		503	19				11	2	987 - 6.93	
2		16	69	225	725		2	1,037 - 13.87		1,041	21				38	3	2,140 - 15.03	
3	1	19	58	293	1,252		10	1,633 - 21.84		1,388	32				12		3,065 - 21.53	
4		5	51	234	969		6	1,265 - 16.92		908	24	5		2	29	1	2,234 - 15.70	
5	1	6	44	146	729		6	932 - 12.47		809	18	2		1	16	1	1,779 - 12.50	
6		5	49	120	807		2	983 - 13.15		971	14				3		1,971 - 13.85	
7		6	32	90	503		5	636 - 8.51		436	43				11	1	1,127 - 7.92	
8		2	13	60	345		1	421 - 5.63		284	4				4		713 - 5.01	
9			1		11			12 - .16		6							18 - .13	
10		3		1	5			9 - .12		3					1		13 - .09	
11			1	3	3			7 - .09		3							10 - .07	
Total	3	70	360	1,272	5,737		34	7,476 - 100.00		6,437	175	7		3	127	8	14,233 - 100.00	

Table G-2
Lithic Debitage and Debris, Site 41WM53 - Area B

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
3		6	13	75	321			415 - 8.45		597	5	1						1,018 - 10.08
4		14	73	221	752		125	1,185 - 24.13		876	41		1		13	6		2,122 - 21.01
5		2	24	87	615		250	978 - 19.92		889	17				33			1,917 - 18.98
6		4	35	87	719		117	962 - 19.59		1,210	14				16			2,202 - 21.80
7		8	34	90	955		30	1,117 - 22.75		1,253	12			2	16	1		2,401 - 23.78
8		2	10	23	215		3	253 - 5.16		178	1				7			439 - 4.35
Total		36	189	583	3,577		525	4,910 -100.00		5,003	90	1	1	2	85	7		10,099 -100.00

Table G-3

Lithic Debitage and Debris, Site 41WM53 - Area C

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC.B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
1		2	4	29	92		1	128 - 6.68		150					2		280 - 7.29	
2		5	15	67	207		2	296 - 15.44		525	1				5		827 - 21.52	
3		10	37	89	343		7	486 - 25.35		472	1				9		967 - 25.16	
4		2	10	61	215		5	293 - 15.28		253		1			4		551 - 14.34	
5		7	19	32	152			210 - 10.96		152					6		368 - 9.56	
6		4	6	26	151		3	190 - 9.91		178					4		372 - 9.68	
7		3	8	18	89			118 - 6.16		62	1			1	3		185 - 4.81	
8			7	13	64			84 - 4.38		38	1				1		124 - 3.23	
9		1		13	41			55 - 2.87		31					1		87 - 2.26	
10		2	4		17		1	24 - 1.25		7	3				1		35 - .91	
11				6	27			33 - 1.72		14							47 - 1.22	
Total		36	110	354	1,398		19	1,917 -100.00		1,882	7	1		1	35		3,843 -100.00	

Table G-4
Lithic Debitage and Debris, Site 41WM56 - Area A

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL TOTAL - %
1	1	1	25	86	330	143	1	587 - 6.73	591	34	1			3		1,216 - 7.62
2		2	21	112	468	213	1	817 - 9.36	932	28	3			4		1,784 - 11.18
3	1	5	66	218	1,180	390	31	1,891 - 21.67	2,042	30	4			9	1	3,977 - 24.92
4	5	7	68	267	957	437	6	1,735 - 19.88	1,240	20	5	1		18		3,019 - 18.92
5	2	4	42	168	887	201	7	1,311 - 15.02	656	15	5		1	9		1,997 - 12.51
6	2	2	20	82	647	117	9	879 - 10.07	496	9				12		1,396 - 8.75
7		5	20	90	494	216	3	828 - 9.49	557	11	1			13		1,410 - 8.84
8		1	22	96	424	116	2	661 - 7.57	455	4				8		1,128 - 7.07
9				2	9	7		18 - .21	12					1		31 - .19
Total	11	27	284	1,115	5,390	1,840	60	8,727 - 100.00	6,981	151	19	1	1	77	1	15,958 - 100.00

Table G-5
Lithic Debitage and Debris, Site 41WN56 - Area B

10cm LEVEL								RESTRICTED								LEVEL
	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	TOTAL - %
1	1	24	102	249	1,144	294	2	1,816 - 16.66	2,651	58	14			7		4,546 - 23.10
2	2	10	40	131	643	169	2	997 - 9.15	793	25	4	1		1		1,821 - 9.25
3	2	6	67	259	1,273	288	12	1,907 - 17.50	1,298	19	2			16		3,242 - 16.47
4	4	7	44	191	817	320	21	1,404 - 12.88	830	7		3	2	11		2,257 - 11.47
5		8	38	173	1,073	318	5	1,615 - 14.82	1,002	33	8		1	12		2,671 - 13.57
6	1	3	39	106	901	242	9	1,301 - 11.94	686	27	1			10	1	2,026 - 10.29
7		4	15	38	413	108		578 - 5.30	386	6				5		975 - 4.95
8	1	2	12	33	258	110	1	417 - 3.83	257	2				6		682 - 3.47
9	1		11	20	213	66	1	312 - 2.86	229	4	1		1	1		548 - 2.78
10		2	11	30	189	81		313 - 2.87	197	4				5		519 - 2.64
11			3	5	104	44		156 - 1.43	104					2		262 - 1.33
12				7	24	21		52 - .48	22					1		75 - .38
13				4	20	7		31 - .28	29							60 - .30
Total	12	66	382	1,246	7,072	2,068	53	10,899 - 100.00	8,484	185	30	4	4	77	1	19,684 - 100.00

Table G-6
Lithic Debitage and Debris, Site 41WM56 - Area C

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL
								TOTAL - %								TOTAL - %
1	5	28	325	847	4,086	1,179	13	6,483 - 8.29	9,287	65	4	3	3	44	1	15,890 - 10.42
2	4	62	421	1,202	5,857	1,869	23	9,438 - 12.07	14,285	62	5	6	2	62		23,860 - 15.65
3	10	34	325	1,249	5,441	1,946	38	9,043 - 11.57	9,997	30	4	5	6	186	5	19,276 - 12.64
4	7	15	188	764	3,265	1,592	26	5,857 - 7.49	5,018	13	7	1	3	39	4	10,942 - 7.18
5	5	10	98	556	2,823	1,019	14	4,525 - 5.79	3,510	12	7	5		44		8,103 - 5.31
6	3	8	135	507	2,590	1,211	70	4,524 - 5.79	2,829	17	1	4	1	63	1	7,440 - 4.88
7	1	22	256	1,042	5,366	2,639	129	9,455 - 12.10	6,790	23	8	2	2	134		16,414 - 10.76
8		18	255	1,211	7,012	3,660	120	12,276 - 15.70	10,038	19	5	4	2	208	1	22,553 - 14.79
9	3	10	244	920	5,260	3,339	95	9,871 - 12.63	6,883	29	3	1		154		16,941 - 11.11
10	1	7	98	398	1,883	1,822	44	4,253 - 5.44	2,746	6				47		7,052 - 4.62
11		2	30	167	686	674	16	1,575 - 2.01	906	6	2			22		2,511 - 1.65
12		2	4	73	370	353	6	808 - 1.03	571	3	1			14		1,397 - .92
13				2	17	11		30 - .04	15							45 - .03
14					5	10		15 - .02	6							21 - .01
15			1		1	1		3 - .01	6							9 - .01
16				1	4	4		9 - .01	4							13 - .01
17					7	3		10 - .01	10							20 - .01
Total	39	218	2,380	8,939	44,673	21,332	594	78,175 - 100.00	72,901	285	47	31	19	1,017	12	152,487 - 100.00

Table G-7

Lithic Debitage and Debris, Site 41WM56 - Area D

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC.B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
1		1	10	23	66	24		124 - 1.92		139	2	1				1	267 - 2.38	
2	2	10	66	146	669	180	1	1,074 - 16.63		1,157	28	1	1			1	2,262 - 20.21	
3	2	6	25	96	400	225	3	757 - 11.72		611	8	1		1	5		1,383 - 12.36	
4	2	4	49	142	705	199	4	1,105 - 17.11		722	3	1				8	1,839 - 16.43	
5	5	3	21	137	819	205	6	1,196 - 18.53		789	3	1				8	1,997 - 17.84	
6		1	37	104	613	187	2	944 - 14.62		559	3	2				4	1,512 - 13.51	
7	2	2	12	65	447	163		691 - 10.70		363	1	2				9	1,066 - 9.52	
8		2	5	30	201	76		314 - 4.86		206	4					2	525 - 4.70	
9			5	18	103	38	1	165 - 2.56		36						1	202 - 1.80	
10			1	7	30	4		42 - .65		14							56 - .50	
11				2	19	3		24 - .37		30							54 - .48	
12				3	14	4		21 - .33		9							30 - .27	
Total	13	29	231	773	4,086	1,308	17	6,457 -100.00		4,635	52	9	1	1	39		11,194 -100.00	

Table G-8
Lithic Debitage and Debris, Site 41WM56 - Area E

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL
								TOTAL - %								TOTAL - %
1	2	15	57	162	832	328	5	1,399 - 13.41	2,045	28	1		1	9		3,483 - 17.27
2	3	7	70	260	1,210	267	5	1,822 - 17.47	2,139	16	1		1	8		3,987 - 19.77
3		7	51	206	890	325	12	1,491 - 14.29	1,286	32	11			5		2,825 - 14.01
4	1	7	44	224	665	252	35	1,228 - 11.77	973	7	1			4		2,213 - 10.97
5	1	4	27	110	565	182	16	905 - 8.68	521	16	3			14		1,459 - 7.24
6		2	25	84	559	104	25	879 - 8.43	633	23	2	1		7		1,545 - 7.66
7		8	36	168	936	291	8	1,447 - 13.87	991	11	1			14		2,464 - 12.22
8	1	2	20	69	556	213		861 - 8.25	578	6	3			9		1,457 - 7.22
9	1	1	11	47	211	107	4	382 - 3.66	313	5	3			5		708 - 3.51
10				2	9	7		18 - .17	8							26 - .13
Total	9	53	339	1,332	6,433	2,156	110	10,432 - 100.00	9,487	144	26	1	2	75		20,167 - 100.00

Table G-9
Lithic Debitage and Debris, Site 41WM56 - Area F

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL
								TOTAL - %								TOTAL - %
1	1	6	66	208	1,066	427	8	1,782 - 40.35	2,623	43	1	1	1	10		4,461 - 47.04
2	3	8	48	129	785	491	5	1,469 - 33.26	1,535	15		1	3	10	1	3,034 - 31.99
3	1	3	14	55	433	227	2	735 - 16.64	605	1		2		6		1,349 - 14.23
4		2	10	10	121	82		225 - 5.10	114	3	3					345 - 3.64
5		1	2	12	62	33	2	112 - 2.54	51	2						165 - 1.74
6		1	2	8	23	52	1	87 - 1.97	33				1			121 - 1.28
7					3	3		6 - .14	1					1		8 - .08
Total	5	21	142	422	2,493	1,315	18	4,416 - 100.00	4,962	64	4	4	5	27	1	9,483 - 100.00

G-10

Table G-10
Lithic Debitage and Debris, Site 41WM73 - Area A

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BYF	OTHER	LEVEL
								TOTAL - %								TOTAL - %
1			6	9	59	22		129 - 5.77	179	10	1			3		289 - 6.45
2			4	15	65	41		125 - 5.59	172	4	1					302 - 6.74
3		1	8	34	169	63	1	276 - 12.35	320	12	2			4		614 - 13.71
4		4	11	31	211	132	1	390 - 17.45	385	14	2			3		794 - 17.73
5		1	13	46	161	191	1	413 - 18.48	381	7				7		808 - 18.04
6		2	3	50	234	124	4	417 - 18.65	338	9		1		6		771 - 17.21
7		1	7	30	168	89	2	297 - 13.29	203	8	1			4		513 - 11.45
8			1	16	101	54		172 - 7.70	181	1				4		358 - 7.99
9			2	1	6	7		16 - .72	13	1						30 - .68
Total	9	55	232	1,174	723	9		2,235 -100.00	2,172	66	7	1		31		4,479 -100.00

Table G-11
Lithic Debitage and Debris, Site 41WM73 - Area B

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC.B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL	- %								TOTAL	- %
1			8	24	100	55		187	- 2.08	116	12	2					317	- 2.06
2	1		5	13	28	24		71	- .79	40	4	2					117	- .76
3				8	22	10		40	- .44	23	3						66	- .43
4				7	30	24		61	- .68	27	4						93	- .61
5		1		8	45	16		70	- .78	43	4					1	118	- .77
6			1	16	43	8	2	70	- .78	38	2					1	111	- .72
7			1	10	29	6		46	- .51	24						2	72	- .47
8				5	33	9	2	49	- .54	18	4						71	- .46
9				8	51	13		72	- .80	42		1					115	- .75
10		2	9	35	225	38	2	311	- 3.46	208	13					3	535	- 3.48
11	1	1	10	31	265	35	4	347	- 3.86	179	13	3				2	544	- 3.54
12		4	10	44	309	83	3	453	- 5.04	294	10	3				2	764	- 4.97
13	2	3	15	51	467	113	1	652	- 7.25	352	22	8				2	1,036	- 6.74
14		4	27	104	787	234	6	1,162	- 12.92	682	50	3				7	1,904	- 12.39
15	1	2	19	133	783	235	6	1,179	- 13.11	1,082	24	7				17	2,309	- 15.02
16		4	32	149	820	336	10	1,351	- 15.02	925	30	6	1			17	2,330	- 15.16
17		2	22	154	835	375	9	1,397	- 15.53	916	31	10				15	2,369	- 15.42
18		4	23	92	501	295	7	928	- 10.32	590	26					13	1,557	- 10.13
19		1	10	35	299	164	4	513	- 5.70	361	10	1				4	889	- 5.78
20				2	19	12	1	34	- .38	18							52	- .34
Total	5	28	198	929	5,691	2,085	57	8,993	-100.00	5,978	262	46	1		87	2	15,369	-100.00

G-12

Table G-12

Lithic Debitage and Debris, Site 41WM73 - Area C

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL TOTAL - %
1				18	64	19		101 - 5.84	108	11						220 - 6.47
2			8	20	111	31	4	174 - 10.06	188	9	1			2		374 - 11.01
3		1	10	31	177	69	1	289 - 16.72	292	9	1	2		4		597 - 17.57
4		3	10	14	132	49	2	210 - 12.15	288	5				2		505 - 14.86
5		4	6	21	107	41	1	180 - 10.41	98	9	2					289 - 8.51
6			2	10	27	27	5	71 - 4.11	34	1				2		108 - 3.18
7			1	6	24	7	1	39 - 2.25	23	2						64 - 1.88
8			1	5	38	7	1	52 - 3.01	57	6						115 - 3.38
9			8	32	251	89		380 - 21.98	257	14	1			13		665 - 19.53
10		1	6	27	92	34		160 - 9.25	157	3				3		323 - 9.51
11			1	7	19	14		41 - 2.37	40					1		82 - 2.41
12				2	15	2		19 - 1.10	9							28 - .82
13				1	4	8		13 - .75	15							28 - .82
Total		9	53	194	1,061	397	15	1,729 -100.00	1,566	69	5	2		27		3,398 -100.00

Table G-13
Lithic Debitage and Debris, Site 41WM73 - Area D

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL TOTAL - %
1		2	4	14	11			31 - 11.88	40	1						73 - 14.87
2		1	4	22	15			42 - 16.09	40	1						83 - 16.90
3		4	3	30	34			71 - 27.20	54	2						127 - 25.87
4		2	11	28	18			59 - 22.61	50	3						112 - 22.81
5		1	1	12	14			28 - 10.73	22							50 - 10.18
6			5	6	13			24 - 9.19	15							39 - 7.94
7				1	3			4 - 1.53	1							5 - 1.02
8			1		1			2 - .77								2 - .41
Total		10	29	113	109			261 - 100.00	222	7				1		491 - 100.00

Table G-14

Lithic Debitage and Debris, Site 41WM73 - Area F

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC.B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
1		2		2	19	11		34 -	4.49	24							58 -	5.17
2			2	3	17	11		33 -	4.36	36	3						72 -	6.41
3				4	3	2		9 -	1.19	12							21 -	1.87
4				1	2	2		5 -	.6								5 -	.45
5					2	1		3 -	.46	6	2					1	12 -	1.07
6				2	21	2		25 -	3.30	9							34 -	3.03
7			3	13	55	12	1	84 -	11.10	64	1					3	152 -	13.53
8			4	16	78	33	1	132 -	17.44	79	8	1				7	227 -	20.21
9			2	16	100	40	122	280 -	36.99		8						288 -	25.64
10		1	2	11	93	23	1	131 -	17.30	85	4					3	223 -	19.86
11				2	12	3		17 -	2.24	4							21 -	1.87
12				1		3		4 -	.53	6							10 -	.89
Total		3	13	71	402	143	125	757 -	100.00	325	26	1				14	1,123 -	100.00

Table G-15

Lithic Debitage and Debris, Site 41WM124 - Area A

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC.B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
1		1	2	7	29	3	1	43	- .75	35	3					2	83	- .71
2		1	2	13	20	63	11	110	- 1.92	91	2					3	206	- 1.76
3		1	3	8	30	90	26	158	- 2.76	174						1	333	- 2.85
4		1		8	32	87	19	148	- 2.59	151						4	303	- 2.59
5		1		13	56	135	31	240	- 4.20	366	4				1	9	620	- 5.30
6			3	10	45	120	17	197	- 3.45	253	6		1			7	464	- 3.97
7				15	50	129	18	213	- 3.73	157	2	1	1			1	375	- 3.21
8				15	49	154	22	242	- 4.24	191	2					3	438	- 3.74
9			3	8	48	124	22	207	- 3.62	163	2					4	376	- 3.21
10		1	1	8	35	109	5	160	- 2.80	191		1				3	355	- 3.03
11			1	10	18	64	21	114	- 2.00	136	3					1	254	- 2.17
12			1	10	16	99	22	151	- 2.64	168	1					1	323	- 2.76
13			2	9	35	106	30	183	- 3.20	178	3				1	2	364	- 3.11
14				11	27	129	39	206	- 3.61	231	2	2				1	442	- 3.78
15		1	5	13	34	117	19	191	- 3.34	190	6				2	4	393	- 3.36
16				6	41	109	35	196	- 3.43	196	3	1				4	400	- 3.42
17			1	17	30	166	35	253	- 4.43	268	7	5				1	534	- 4.56
18		3		19	124	279	12	437	- 7.65	632	2	2	1			2	1,076	- 9.20
19			5	19	63	161	29	278	- 4.86	280	7		1			9	575	- 4.91
20		1	5	24	79	201	18	331	- 5.79	348	8	1	1			4	693	- 5.92

Table G-15 (continued)
Lithic Debitage and Debris, Site 41WM124 - Area A

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL TOTAL - %
21		3	26	29	102	5	1	166 - 2.91	190	18				3		377 - 3.22
22		2	7	25	70	10	5	119 - 2.08	91					3		213 - 1.82
23		1		14	55	18	2	90 - 1.57	86	2			1	2		181 - 1.55
24		2	3	23	46	23	3	100 - 1.75	80					2		182 - 1.56
25		1		21	52	13	5	92 - 1.61	82					1		175 - 1.50
26		2	8	23	69	11	3	116 - 2.03	112	2				3		233 - 1.99
27		3	4	17	64	15	1	104 - 1.82	66	4				4		178 - 1.52
28		1	7	34	61	9	7	119 - 2.08	65	2		1		2		189 - 1.62
29		2	1	26	57	20	2	108 - 1.89	93	1				1		203 - 1.74
30			6	22	59	11		98 - 1.71	72	1			2	2		175 - 1.50
31	3	2	8	35	68	21	2	139 - 2.43	80	3	1		1	4		228 - 1.95
32			2	35	60	31		128 - 2.24	123							251 - 2.15
33			3	16	25	10		54 - .94	47							101 - .86
34			1	14	39	10	1	65 - 1.14	46					4		115 - .98
35	1	3	1	11	22	7		45 - .79	26	4				2		77 - .66
36			1	17	26	8	1	53 - .93	34	1				3		90 - .77
37		1	4	15	37	3	1	61 - 1.07	58					3		123 - 1.05
Total	14	56	320	1,216	3,383	659	67	5,715 -100.00	5,750	101	14	6	8	104		11,698 -100.00

Table G-16
Lithic Debitage and Debris, Site 41WM124 - Area B

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL
								TOTAL - %								TOTAL - %
2			5	5	16	1		27 - 1.15	21	1						49 - .97
3		1	26	86	243	34	2	392 - 16.65	374	6	1			12		785 - 15.56
4	1	4	22	59	197	39		322 - 13.68	343	8		1		8		682 - 13.52
5			6	17	58	14	3	98 - 4.16	117	1		1		2		219 - 4.34
6			13	66	137	24		240 - 10.20	333	2		1		7		583 - 11.55
7		1	9	32	76	25	2	145 - 6.16	216	2				2		365 - 7.24
8		1	6	18	57	18	1	101 - 4.29	103		1			2		207 - 4.11
9			6	7	40	7	1	61 - 2.59	82					1		144 - 2.86
10		3	6	23	56	21		109 - 4.63	145		1			3		258 - 5.12
11		4	6	25	58	17	1	111 - 4.72	131	6				1		249 - 4.94
12		5	6	23	55	18	3	110 - 4.67	89	1	1			1		202 - 4.01
13	1	2	8	13	66	15	2	107 - 4.55	120	5				1		233 - 4.62
14		1	5	23	53	16		98 - 4.16	132	4						234 - 4.64
15			15	41	41	11	1	109 - 4.63	128	2				3		242 - 4.80
16			5	15	33	8		61 - 2.59	80							141 - 2.80
17		4	6	16	24			50 - 2.12	59							109 - 2.16
18			5	26	43	1	3	78 - 3.31	58	1						137 - 2.72
19		1	3	16	31	4		55 - 2.34	30							85 - 1.69
20		2	4	12	26	5	1	50 - 2.12	20							70 - 1.39
21			1	4	10	1		16 - .68	11							27 - .54
22				5	9			14 - .60	6	1						21 - .42
Total	2	29	163	532	1,329	279	20	2,354 -100.00	2,598	40	4	3		43		5,042 -100.00

G-18

Table G-17
Lithic Debitage and Debris, Site 41WM124 - Area C

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL
								TOTAL - %								TOTAL - %
1					5			5 - .59	2							7 - .47
2	2	1	9	22	48	9	2	93 - 10.90	46							139 - 9.29
3		3	5	23	86	15	1	133 - 15.59	94	1			1	4		233 - 15.56
4		7	33	106	308	110	6	570 - 66.82	424	3	1	2			6	1,006 - 67.20
5			2	10	29	10	1	52 - 6.10	58						1	111 - 7.41
6									1							1 - .07
Total	2	11	49	161	476	144	10	853 -100.00	625	4	1	2	1	11		1,497 -100.00

Table G-18
Lithic Debitage and Debris, Site 41WM133 - XU-5

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL TOTAL - %
2		3	12	26	39	9	2	91 - 11.21	30	3				2	2	128 - 10.17
3	1	4	5	28	58	18	2	116 - 14.28	34	2	1	1		2		156 - 12.40
4	2	11	11	41	75	16	1	157 - 19.33	77	6				2	2	244 - 19.40
5	2	1	18	52	100	32	7	212 - 26.11	101	6	1			2		322 - 25.60
6		1	8	31	35	19		94 - 11.58	66	2	1			1	1	165 - 13.12
7		2	6	25	55	10	3	101 - 12.44	76	2			1			180 - 14.31
8		1	2	3	9		1	15 - 1.85	4		1					20 - 1.59
9		1		3	5	2	1	12 - 1.48	5	3						20 - 1.59
10				1	2	2		5 - .61	4							9 - .71
11			1	2				3 - .37								3 - .24
12					1	2		3 - .37								3 - .24
13				1	1	1		3 - .37	5							8 - .63
Total	5	24	63	213	379	111	17	812 -100.00	402	24	4	1	1	9	5	1,258 -100.00

Table G-19

Lithic Debitage and Debris, Site 41WM133 - XU-6

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC.B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
1				7	12			19 - 10.50		7							26 - 6.57	
2				1	3	3		7 - 3.87		4							11 - 2.78	
3			1	1	14	5		21 - 11.60		17							38 - 9.60	
4		1		10	14	2	2	29 - 16.02		24					1		54 - 13.64	
5	1	3	9	15	49	9	1	87 - 48.07		84	1						173 - 43.68	
6			1	5	7	5		18 - 9.94		76		1					94 - 23.73	
Total	1	4	11	39	99	24	3	181 -100.00		212	1	1			1		396 -100.00	

Table G-20

Lithic Debitage and Debris, Site 41WM230, XU-1

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTf	OTHER	LEVEL TOTAL - %
2				6	12	4	1	23 - .98	24							47 - 1.10
3			5	14	19	10	1	49 - 2.09	40				1	2		92 - 2.15
4		4	3	20	67	13	2	109 - 4.66	82	1			1	3	1	197 - 4.61
5	2	3	3	21	67	18	1	115 - 4.92	110	2	2			6		235 - 5.50
6	1	2	12	39	128	25	3	210 - 8.97	153					3		366 - 8.56
7	1		6	24	73	9	1	114 - 4.87	128	1		1		4		248 - 5.80
8		2	5	15	72	10		104 - 4.44	93	1				5		203 - 4.75
9		4	22	35	149	25	5	240 - 10.26	172	3				6		421 - 9.85
10			13	60	144	63	4	284 - 12.14	217	1			1	5		508 - 11.88
11	1	4	14	76	167	54	3	319 - 13.63	211	3		2		1		536 - 12.54
12		1	12	63	168	59	5	308 - 13.16	267	1	2			2		580 - 13.57
13			5	52	107	42	1	207 - 8.85	163					3	1	374 - 8.75
14		1	2	24	68	20	1	116 - 4.96	99	1						216 - 5.05
15	2		6	27	77	30		142 - 6.07	110							252 - 5.89
Total	7	21	108	476	1,318	382	28	2,340 - 100.00	1,869	14	4	3	3	40	2	4,275 - 100.00

Table G-21

Lithic Debitage and Debris, Site 41WM230 - XU-3

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL TOTAL - %
1	1							1 - .01	1							2 - .01
2	1	6	12	40	125		6	190 - 1.00	228	12	2	3			1	436 - 1.24
3	1	3	9	24	55		2	94 - .50	123	2	1			6		226 - .64
4		3	13	42	100		7	165 - .86	230				1	9		405 - 1.15
5	2	6	30	104	274	11	8	435 - 2.30	531	3	3			16		988 - 2.81
6	3	15	69	237	740	33	25	1,122 - 5.92	1,041	14	1			37		2,215 - 6.30
7	9	14	79	261	970	93	28	1,454 - 7.67	1,273	13	6	2	2	46	2	2,798 - 7.96
8	5	19	100	414	1,338	294	97	2,267 - 11.97	1,807	24	6	5	3	104	3	4,219 - 12.00
9	11	30	131	501	1,830	442	101	3,046 - 16.08	2,141	28	2	2	6	137	3	5,365 - 15.26
10	7	29	101	502	1,750	418	68	2,875 - 15.18	2,107	16	3		5	110	1	5,117 - 14.56
11	4	6	33	314	1,074	233	8	1,672 - 8.83	1,917	5	5	1		9		3,609 - 10.27
12		6	25	243	703	126	3	1,106 - 5.84	1,147	2	1		1			2,257 - 6.42
13	1	4	16	74	209	63	12	379 - 2.00	301	4	2		1	11		698 - 1.99
14	1	2	7	37	101	21	4	173 - .90	122	1				2		298 - .85
15		1	6	24	56	12	1	100 - .53	62					2		164 - .47
16	1	1	10	1	46	11	1	82 - .43	55		2			1		140 - .40
17		1	3	18	33	8		63 - .33	60	3				2		128 - .36
18	1	3	4	17	29	11	1	66 - .35	34							100 - .28
19		3	17	25	54	22	2	123 - .65	66	2				2		193 - .55
20		8	21	91	167	50	7	344 - 1.82	167	4		1		5		521 - 1.48
21		3	18	44	98	32	1	196 - 1.03	99					1		296 - .84
22	1	7	4	43	95	24	7	181 - .95	100	1		2		1		285 - .81
23		6	19	34	87	21	2	169 - .88	94	3				2		268 - .76

G-23

Table G-21 (continued)
Lithic Debitage and Debris, Site 41WM230 - XU-3

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL	%								TOTAL	%
24	3	5	11	46	103	29	2	199	- 1.05	90	1					2	292	- .83
25	2	3	19	57	112	22	2	217	- 1.14	135	5	3	1			2	363	- 1.03
26	1	8	22	68	179	36	4	318	- 1.68	239	7		1				567	- 1.61
27		9	32	97	206	46	6	396	- 2.09	255	3	1	1			6	662	- 1.88
28	1	4	13	70	155	29	5	277	- 1.46	161	6		1				445	- 1.27
29		2	11	22	55	14	6	110	- .58	61	1		1	1	1		175	- .50
30		2	7	20	33	6		68	- .36	45	1						114	- .32
31			5	12	22	4	2	45	- .24	30							75	- .21
32			2	6	13	2	1	24	- .13	9							33	- .09
33				1	5	1		7	- .04	11							18	- .05
34			1	4	13	3		21	- .11	12							33	- .09
35	1	1	1	16	33	7	1	60	- .32	54						1	115	- .33
36		1	4	20	34	12	3	74	- .39	58	1					1	134	- .38
37		1	8	16	46	2	2	75	- .40	52		1					128	- .36
38	1	2	27	135	359	76	12	612	- 3.23	407	2			1	6		1,028	- 2.92
39			1	16	36	14	2	69	- .36	52		1		1			123	- .35
40										3							3	- .01
41					3			3	- .02	3							6	- .02
42					1			1	- .01								1	- .01
43				1				1	- .01	1							2	- .01
44				1	3			4	- .02								4	- .01
45																		

G-24

Table G-21 (continued)
Lithic Debitage and Debris, Site 41WM230 - XU-3

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL	- %								TOTAL	- %
46				1	1			2	.01								2	.01
47										1							1	.01
48						2		2	.01	1							3	.01
49						1		1	.01	1							2	.01
Unknown			3	7	12			56	.30	40							96	.27
Total	58	214	894	3,717	11,383	2,240	439	18,945	-100.00	15,427	164	40	21	22	522	12	35,153	-100.00

Table G-22

Lithic Debitage and Debris, Site 41WM230 - XU-5

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC.B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
2						3	1	4 - .51		7		1						12 - .84
3		2	3	4	25	4	1	39 - 5.01		24	1							64 - 4.50
4	1	2	7	35	55	8	3	111 - 14.25		59	3	1						174 - 12.23
5	1	2	6	19	49	15	4	96 - 12.32		64	4					2		166 - 11.67
6	2	2	9	18	45	9		85 - 10.91		58	3		1			3	1	151 - 10.61
7			8	12	38	8	2	68 - 8.73		45	2					3		118 - 8.29
8		2	4	9	15	12	2	44 - 5.65		40	1		1	1		3		90 - 6.32
9		2	3	7	23	4	2	41 - 5.26		46						1		88 - 6.18
10		2	2	14	28	9		55 - 7.06		41		1				5		102 - 7.17
11	2	1	4	5	16	3	1	32 - 4.11		29	1					1		63 - 4.43
12		1	3	7	20	2		33 - 4.24		30						5		68 - 4.78
13		1	2	23	43	4		73 - 9.37		47			1			2		123 - 8.64
14		1	1	22	36	3	1	64 - 8.22		72								136 - 9.56
15	1	1	1	11	19		1	34 - 4.36		32	1					1		68 - 4.78
Total	7	19	53	186	412	84	18	779 -100.00		594	16	3	3	1	26	1		1,423 -100.00

Table G-23

Lithic Debitage and Debris, Site 41WM230 - XU-7

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL TOTAL - %
2								— —	3							3 - 8.11
3					1			1 - 7.14								1 - 2.70
4								— —	2							2 - 5.41
5		1	2	1	5		1	10 - 71.43	5							15 - 40.53
6								— —	2							2 - 5.41
7								— —	3							3 - 8.11
8					2			2 - 14.29	7							9 - 24.32
9					1			1 - 7.14			1					2 - 5.41
Total		1	2	1	9		1	14 - 100.00	22		1					37 - 100.00

Table G-24

Lithic Debitage and Debris, Site 41WM230 - XU-8

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL TOTAL - %
2				1	5	3		9 - 21.43	11					1		21 - 25.00
3				3	18			21 - 50.00	15					1		37 - 44.05
4				1	9	1	1	12 - 28.57	13					1		26 - 30.95
Total				5	32	4	1	42 - 100.00	39					3		84 - 100.00

G-27

Table G-25

Lithic Debitage and Debris, Site 41WM230 - XU-9

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL TOTAL - %
2			1		4			5 - .23	3					1		9 - .25
3				2	4		1	7 - .32	11							18 - .50
4		1		3	10	2		16 - .74	15							31 - .85
5		1	2	19	19	10	1	52 - 2.40	33					1		86 - 2.37
6		1	10	25	70	8	4	118 - 5.45	109	1				2		230 - 6.34
7			4	33	80	16	1	134 - 6.19	86	1				2		223 - 6.15
8	2	2	9	66	157	35	4	275 - 12.72	166			1		2		444 - 12.24
9		5	50	154	465	108	15	797 - 36.83	473	2		1	1	11		1,285 - 35.42
10		5	23	84	328	77	4	521 - 24.08	349	2				9		881 - 24.28
11			14	60	122	42	1	239 - 11.04	175	2		1		4		421 - 11.60
Total	2	15	113	446	1,259	298	31	2,164 -100.00	1,420	8		3	1	32		3,628 -100.00

Table G-26
Lithic Debitage and Debris, Site 41WM258 - Area A

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC.B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
2				3	20	1		24 - 2.37		8						1	33 - 1.99	
3	1	3		36	45	19	2	106 - 10.48		63	1	1			1		172 - 10.38	
4	1	1	11	87	112	45		257 - 25.42		149	1	1			2		410 - 24.74	
5		2	3	31	44	18	12	110 - 10.88		162	4						276 - 16.66	
6		2	8	55	118	28		211 - 20.87		113					2		326 - 19.67	
7			5	40	75	19		139 - 13.75		31						1	172 - 10.38	
8		1	4	25	87	23		140 - 13.85		90	1				1		232 - 14.00	
9				9	10		4	23 - 2.28		10					2		35 - 2.12	
10					1			1 - .10									1 - .06	
Total	5	9	31	286	512	153	18	1,011 - 100.00		626	7	2			8	2	1,657 - 100.00	

Table G-27
Lithic Debitage and Debris, Site 41WN258 - Area B

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED TOTAL - %	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL TOTAL - %
2				1	3			4 - 1.78	1						1	6 - 1.80
3		1			6	1		8 - 3.56	7							15 - 4.51
4					7	1		8 - 3.56	4							12 - 3.60
5			1	6	10			17 - 7.56	11							28 - 8.41
6			2	20	44	8		74 - 32.89	34							108 - 32.44
7			2	9	24			35 - 15.56	11	1					1	48 - 14.41
8			2	4	13	3	1	23 - 10.20	13							36 - 10.81
9					1			1 - .44								1 - .30
10	1		2	1	14	7	1	26 - 11.56	14							40 - 12.01
11			1	1	5		2	9 - 4.00	2	1						12 - 3.60
12																
13					14	2		16 - 7.11	5						1	22 - 6.61
14					1	3		4 - 1.78	1							5 - 1.50
Total	1	1	10	43	144	22	4	225 - 100.00	103	2				2	1	333 - 100.00

Table G-28
Lithic Debitage and Debris, Site 41WM258 - Area C

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED	CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL
								TOTAL - %								TOTAL - %
2									1							1 - .15
3			1	1	3			5 - 1.12								5 - .74
4			4	8	13	1		26 - 5.83	6	2						34 - 5.00
5	1	2	7	34	51	23		118 - 26.46	82		1				1	202 - 29.71
6		2	4	16	37	12	1	72 - 16.14	21	1	1				1	96 - 14.12
7		1	3	11	38	2	1	56 - 12.56	10	1						67 - 9.85
8			2	7	16	3		28 - 6.28	28	1						57 - 8.38
9		1	1	1	2			5 - 1.12	4							9 - 1.32
10			1	6	5		1	13 - 2.91	1							14 - 2.06
11		1	1	7	10			19 - 4.26	2							22 - 3.23
12					4	16		20 - 4.48	5							25 - 3.68
13			1	2	7		2	12 - 2.69								12 - 1.76
14				7	40	16		63 - 14.13	59							122 - 17.94
15					6	3		9 - 2.02	5							14 - 2.06
Total	1	7	25	100	232	76	5	446 - 100.00	224	5	2		1	2		680 - 100.00

Table G-29

Lithic Debitage and Debris, Site 41WM267 - Area A

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
1				1				1 -	.01		2						3 -	.01
2			7	18	24	16		65 -	.36	101	1	1	1			1	170 -	.49
3			1	4	25	13	1	44 -	.25	39					1		84 -	.24
4			9	20	76	18	3	126 -	.70	134	1	1					262 -	.76
5	1	1	18	70	193	63	8	354 -	1.98	368	5	1			2		730 -	2.11
6	1	2	18	55	162	111	4	353 -	1.97	478		1			2		834 -	2.42
7		1	23	60	226	122	3	435 -	2.43	566	1	2			3		1,007 -	2.92
8		2	19	85	263	76	5	450 -	2.51	440	1	2			3		896 -	2.59
9	3		12	84	263	83	8	453 -	2.53	367	4	2	1		6		833 -	2.41
10	2		12	41	170	63	3	291 -	1.62	250					5		546 -	1.58
11		1	18	49	177	49	5	299 -	1.67	240	5				1		545 -	1.58
12	1	4	22	130	435	116	6	714 -	3.99	561	3				3		1,281 -	3.71
13	2	6	61	330	1,049	291	13	1,752 -	9.78	1,576	6	2	1		18		3,355 -	9.71
14	1	17	72	301	1,111	399	22	1,923 -	10.73	1,681	1	2	1	1	21		3,630 -	10.51
15	1	9	87	336	1,145	468	10	2,056 -	11.47	2,006	3	1			29		4,095 -	11.86
16	2	15	87	491	1,538	622	16	2,771 -	15.46	2,263	9	9	1		19		5,072 -	14.68
17	1	1	35	235	908	429	9	1,618 -	9.03	1,449	8	2			14	1	3,092 -	8.95
18		4	36	230	907	416	8	1,601 -	8.94	1,399	3	2	2		15		3,022 -	8.75
19		3	27	150	490	255	5	930 -	5.19	680	1	1	1		1		1,614 -	4.67
20	4		28	124	273	192	3	624 -	3.48	699		2			1		1,326 -	3.84
21	1	5	36	94	231	90	3	460 -	2.57	436		4	1				901 -	2.61
22	1	1	1	17	65	12	2	99 -	.55	116					1		216 -	.63
23			1	10	32	3	1	47 -	.26	29	1	2	1				80 -	.23

G-32

Table G-29 (continued)

Lithic Debitage and Debris, Site 41WM267 - Area A

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
24		1	1	7	28	5		42 -	.23	13		1					56 -	.16
25		1	5	18	60	1	1	86 -	.48	75		1				1	163 -	.47
26			12	23	53	14	1	103 -	.57	159		1					263 -	.76
27			1	14	38	9		62 -	.35	56			1				99 -	.29
28		1		21	48	17		87 -	.49	64	1						152 -	.44
29			2	14	31	17		64 -	.36	134							198 -	.57
30					6	2		8 -	.04	8							16 -	.05
Total	21	75	651	3,032	10,027	3,972	140	17,918	-100.00	16,367	56	40	11	1	146	2	34,541	-100.00

Table G-30

Lithic Debitage and Debris, Site 41WM267 - Area B

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
2		3	4	35	82	55	2	181	- .90	272	1	1			3		458	- 1.24
3			6	11	28	27	1	73	- .36	131					1		205	- .56
4	1		4	6	27	4	1	43	- .21	102							145	- .39
5	1		17	65	244	123	2	452	- 2.24	501	3	3			3		962	- 2.61
6	1	6	44	124	558	240	11	984	- 4.87	966	5	2	1		7		1,965	- 5.32
7	2	3	20	79	285	109	5	503	- 2.49	623		1			3		1,130	- 3.06
8	1	2	20	113	348	153	2	639	- 3.16	826		6	1		2		1,474	- 3.99
9	1	7	21	116	473	217	8	843	- 4.17	890	3	1	2	1	3		1,743	- 4.72
10	1	3	28	153	503	172	7	867	- 4.29	788	2	1		1	9	1	1,669	- 4.52
11	1	6	42	174	561	137	42	963	- 4.77	727	4	2			6		1,702	- 4.61
12	2	9	50	232	726	221	18	1,258	- 6.23	836	12	1	1		8	1	2,117	- 5.73
13	1	9	40	220	674	202	17	1,163	- 5.76	950	3	1			8		2,125	- 5.76
14	2	3	36	215	627	177	5	1,065	- 5.27	803	4	4			4		1,890	- 5.09
15	1	20	157		405	211	7	801	- 3.97	677	5	2			4		1,485	- 4.03
16	1	1	42	214	614	282	3	1,157	- 5.73	835	4	1			3		2,000	- 5.42
17		3	59	274	889	425	6	1,656	- 8.20	1,296	2		1		5		2,960	- 8.02
18		3	57	235	726	350	7	1,378	- 6.82	1,038	3	1			3		2,423	- 6.56
19		6	45	230	725	236	7	1,257	- 6.22	927	2	1			4		2,191	- 5.93
20	3	1	32	189	677	286	11	1,199	- 5.94	931	6	1			8		2,145	- 5.81
21		3	27	111	389	199	7	736	- 3.65	459	3	2			10		1,210	- 3.28
22	1		36	163	434	101	8	743	- 3.68	535		1			9		1,288	- 3.49
23			29	173	666	302	4	1,174	- 5.81	680		1			11		1,866	- 5.05
24	1	1	18	62	257	32	3	374	- 1.85	182		1			1		558	- 1.51

G-34

Table G-30 (continued)

Lithic Debitage and Debris, Site 41WM267 - Area B

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC.B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
25	1	1	7	39	159	53	2	262	- 1.30	159	2	1				4	428	- 1.16
26			6	42	120	28		196	- .97	200							396	- 1.07
27		1	3	18	77	28		127	- .63	74						2	203	- .55
28				5	28	17	1	51	- .25	45	1						97	- .26
29				2	5	4		11	- .06	6							17	- .05
30			2	5	9	4	1	21	- .10	12						1	34	- .09
31			1	5	7	2		15	- .07	9							24	- .07
32		1			4	2		7	- .03	10							17	- .05
Total	22	92	853	3,318	11,327	4,399	188	20,199	-100.00	16,490	65	35	6	2	122	2	36,921	-100.00

Table G-31

Lithic Debitage and Debris, Site 41WM267 - Area C

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL - %									TOTAL - %	
2			6	12	50	27		95 - 10.76		110								205 - 12.36
3	1		2	13	29	12	1	58 - 6.57		126	1							185 - 11.16
4			2	16	34	41		93 - 10.53		150	1							244 - 14.72
5			5	11	68	16		100 - 11.33		83								183 - 11.04
6		2	3	46	126			177 - 20.05		125	1							305 - 18.40
7	1		7	22	150	43		223 - 25.25		73	28	1				2		328 - 19.78
8			1	5	37	7		50 - 5.66		22		2						74 - 4.46
9		1		10	15	3		29 - 3.28		13	2							46 - 2.77
10		2	2	8	15	4		31 - 3.51		14						1	1	45 - 2.71
11			2	2	12	2		18 - 2.04		12								30 - 1.81
12		1	1		7			9 - 1.02		4								13 - .79
Total	2	6	31	145	543	155	1	883 -100.00		732	33	3				6	1	1,658 -100.00

Table G-32

Lithic Debitage and Debris, Site 41WM267 - Area D

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL	%								TOTAL	%
Surface			1	1	11			13	.07		1						14	.04
1			7	16	61	12		96	.53	34	1						133	.42
2	1	4	4	16	65	8		98	.54	56	1				2		156	.49
3		4	3	24	41	10	1	83	.46	55	6						144	.45
4		3	2	13	40	17		75	.42	50	1				1		127	.40
5			1	16	30	6		53	.29	16							69	.22
6	1	1		7	23	6		38	.21	4	1	1					44	.14
7		2	2	15	25	8		52	.29	34							86	.27
8			1	16	39	15		71	.39	26	3						100	.32
9		1	3	16	42	19		81	.45	30	3	1					115	.36
10		2	7	27	65	12		113	.63	36	10						159	.50
11		1	1	18	46	13		79	.44	24							103	.33
12			4	14	36	9		63	.35	7							70	.22
13				1	21	5		27	.14	16					1		44	.14
14				3	15	5		23	.13	9	3						35	.11
15			1	2	18	6	1	28	.16	9	2			1	2		42	.13
16				7	21	7		35	.19	21							56	.18
17		4	10	32	15			61	.34	39					2		102	.32
18		9	17	48	20			94	.52	70				1	2		167	.53
19		8	25	69	27	2		133	.74	173	4		2		4		316	1.00
20		9	47	77	17	11		164	.91	209							391	1.23

Table G-32 (continued)

Lithic Debitage and Debris, Site 41WM267 - Area D

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL	- %								TOTAL	- %
21		3	14	58	160	58	1	294	- 1.63	320	22		1		9		646	- 2.04
22		1	7	54	148	34	2	246	- 1.36	186	15				15		462	- 1.46
23		2	9	27	85	37	2	162	- .90	141	9			1	17		330	- 1.04
24		1	14	57	127	57	3	259	- 1.44	168	5				7		439	- 1.39
25			3	31	75	24		133	- .74	223	1				1		358	- 1.13
26	1		6	36	99	32		174	- .97	173	18				8		373	- 1.18
27		2	4	27	53	13	12	111	- .61	97	5				5		218	- .69
28	1	1	9	26	98	47	2	184	- 1.02	191					1		376	- 1.19
29		4	5	36	85	61	6	197	- 1.09	174	5				8		384	- 1.21
30	1		5	34	89	33	3	165	- .92	116	5				9		295	- .93
31			1	26	55	17		99	- .55	95	6				2		202	- .64
32			2	27	41	15		85	- .47	75	7				5		172	- .54
33			4	26	35	22	1	88	- .49	87	1				1		177	- .56
34			1	18	28	9	1	57	- .32	40	7				1		105	- .33
35			1	11	41	9		62	- .34	46	4						112	- .35
36			2	10	16	2		30	- .17	17	8				3		58	- .18
37			2	3	16	3	1	25	- .14	14	7				2		49	- .16
38			1	2	13	2		18	- .10	17	7		1		1		43	- .14
39				1	4	3		8	- .04	8	1						17	- .05
40			3	3	15	3		24	- .13	13	5						42	- .13

Table G-32 (continued)
Lithic Debitage and Debris, Site 41WM267 - Area D

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL -	%								TOTAL -	%
41				2	6	1		9 -	.05	9	1						19 -	.06
42			1	1	4	1		7 -	.04	5	4					1	17 -	.05
43				2	1	1		4 -	.02	5	4						13 -	.04
44				1	1	4	1	7 -	.04	3	8						18 -	.06
45				4	5	1	6	16 -	.09	3	1						20 -	.06
46				1	12	2		15 -	.08	2	2			1			20 -	.06
47				7	10	5		22 -	.12	11	6					1	40 -	.13
48				2	18	2		22 -	.12	10	1						33 -	.10
49		3		10	49	9		71 -	.39	18						9	98 -	.31
50				5	11	2		18 -	.10	19							37 -	.12
51			1	6	27	7		41 -	.23	27	1					1	70 -	.22
52			1	5	21	2		29 -	.16	19	3					3	54 -	.17
53-54		3	31	127	467	201	7	836 -	4.64	28	10	5	1			5	885 -	2.80
55-56	1	7	79	321	1,076	461	12	1,957 -	10.85	1,729	9	4	1			8	3,708 -	11.72
57-58	4	7	75	363	1,456	442	55	2,402 -	13.32	1,719	15	2	1			7	4,146 -	13.10
59-60	4	1	53	269	1,223	418	11	1,979 -	10.97	1,735	12	1	1			8	3,736 -	11.80
61-62	6	3	38	183	922	412	16	1,580 -	8.76	1,325	5	1				3	2,914 -	9.21
63-64	3	2	49	325	1,017	561	44	2,001 -	11.09	1,218	7	3				6	3,235 -	10.22
65-66	3	1	16	136	400	153		709 -	3.93	517		1					1,227 -	3.88
67-68	2	1	10	56	199	74	2	344 -	1.91	253	3		1				601 -	1.90

Table G-32 (continued)

Lithic Debitage and Debris, Site 41WM267 -- Area D

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTF	OTHER	LEVEL	
								TOTAL	%								TOTAL	%
69-70	6	1	11	62	196	58	1	335	- 1.86	216	1	2			1		555	- 1.75
71-72	4	2	3	29	110	23	2	173	- .96	103		1					277	- .88
73-74	1		2	15	45	5	1	69	- .38	59							128	- .40
75-76			2	11	31	16		60	- .33	44							104	- .33
77-78		2		8	71	7	1	89	- .49	59	7				2		157	- .50
79-80	2	1	3	9	32	13		60	- .33	9	9				2		80	- .25
81-82			1	13	31	6		51	- .28	19	11				3		84	- .27
83-84				16	20	7	4	47	- .26	24	6				7		84	- .27
85-86				22	76	14	19	131	- .73	43	26		3		15	1	219	- .69
87-88	1			8	28	6		43	- .24								43	- .14
89-90				2	11	3	1	17	- .09						2		19	- .06
91-92		1		2	10	4		17	- .09	5		1			4		27	- .09
93-94		3		12	39	5	4	63	- .35	24		12			6		105	- .33
95-96				24	71	15		110	- .61	33	9				16		168	- .53
97-98		2	3	17	45	10		77	- .43	38	3				5		123	- .39
99-100			2	5	26	11	10	54	- .30	22	3						79	- .25
101-102		1	6	25	54	36		122	- .68	94	5		2		7		230	- .73
103-104	1		1	8	44	14	1	69	- .38	27	12				3		111	- .35
105-106			1	5	13	6		25	- .14	8	2				1		36	- .11
107-108	1	2	4	12	32	21		72	- .40	55	1						128	- .40

Table G-32 (continued)

Lithic Debitage and Debris, Site 41WM267 - Area D

10cm LEVEL	CORE	PRIM. FLAKE	SEC. A FLAKE	SEC. B FLAKE	TERT. FLAKE	MICRO FLAKES	BLADES	RESTRICTED		CHIPS	CHUNKS	CORE FRAG.	CORE TRIM FLAKES	BURIN SPALLS	BTf	OTHER	LEVEL	
								TOTAL	- %								TOTAL	- %
109-110		1	1	12	34	14		62	- .34	39	2				1		104	- .33
111-112	1		3	1	9	1		15	- .08	6					3		24	- .08
113-114		3	17	45	36	9		110	- .61	75	21		1		3	1	211	- .67
115-116		1	3	8	13	1		26	- .14	6	2				3		37	- .12
117-118				5	4	1		10	- .06	8	4				1		23	- .07
119-120		1	1	3	9	1		15	- .08	2	1						18	- .06
121-122		2	1	3	13	6		25	- .14	2	4				2		33	- .10
123-124					3	1		4	- .02	7					2		13	- .04
125-126		1	2	12	30	6		51	- .28	28	5				6		90	- .28
127-128				2	8	3		13	- .07	5	3		1		3		25	- .08
129-130			1	4	7	2		14	- .08	4	1						19	- .06
131-132		1	4	7	9	8		29	- .16	13	8		2		3		55	- .17
133-134			1	2	7			10	- .06	4	1		1		5		21	- .07
135-136								-----									-----	
137-138								-----									-----	
TOTAL	45	89	587	3,059	10,200	3,810	248	18,038	-100.00	12,855	424	35	20	4	274	2	31,652	- 100.00

Appendix H: Descriptive Statistics of the Dimensions of Complete Lithic Tools

The following tables provide descriptive statistics for the size dimensions (length, width, and thickness) of the complete lithic tools collected from the excavated sites of the North Fork and Granger Reservoir districts. Only those tool classes represented by four or more complete specimens per component are presented individually by site. The dimensions of all other complete tool specimens have been incorporated in the reservoir summary tables (Tables H-4 and H-8).

Legend:

N = sample size

L = length

W = width

T = thickness

s.d. = standard deviation

min.val = minimum value

max.val = maximum value

mean s.e. = mean standard error

c.v. = coefficient of variance

Table H-1. Descriptive Statistics of Complete Tools,
Site 41WM53

Tool Class Component	Truncations Austin/Twin Sisters	Burins Twin Sisters	Burins Austin/Twin Sisters
N	4	4	4
L: mean	33	38	63
s.d.	21.63	10.31	21.56
min.val.	10	23	44
max.val.	58	47	94
mean s.e.	10.81	5.15	10.78
variance	467.67	106.25	464.92
c.v.	66.54	27.31	34.09
W: mean	30	31	41
s.d.	13.54	8.49	13.43
min.val.	16	21	27
max.val.	47	39	57
mean s.e.	6.77	4.24	6.71
variance	183.33	72.00	180.25
c.v.	45.13	27.37	32.95
T: mean	4	8	12
s.d.	1.63	3.95	4.24
min.val.	2	5	7
max.val.	6	13	16
mean s.e.	.82	1.97	2.12
variance	2.67	15.58	18.00
c.v.	40.83	47.85	35.36

Table H-2. Descriptive Statistics of Complete Tools,
Site 41WM56

Tool class Component	Scrapers Round Rock	Scrapers Clear Fork	Notches Twin Sisters	Notches Clear Fork	Notches San Geronimo	Backed P. San Geronimo
N	5	8	10	7	7	4
L: mean	70	60	37	46	30	41
s.d.	14.08	26.40	11.69	26.50	13.46	20.49
min.val.	54	28	20	15	12	20
max.val.	85	110	56	98	47	64
mean s.e.	6.30	9.33	3.70	10.02	5.09	10.25
variance	198.30	697.07	136.71	702.14	181.24	420.00
c.v.	20.23	43.82	31.95	57.78	45.31	49.99
W: mean	64	47	33	38	35	31
s.d.	14.24	14.78	11.42	17.37	21.84	20.98
min.val.	46	34	20	20	12	15
max.val.	83	73	53	66	65	59
mean s.e.	6.37	5.23	3.61	6.56	8.26	10.49
variance	202.70	218.57	25.83	301.57	477.14	440.25
c.v.	22.18	31.46	59.80	46.05	62.67	67.14
T: mean	22	14	9	10	11.86	7
s.d.	15.08	3.54	5.08	5.62	13.38	6.65
min.val.	8	8	3	2	2	2
max.val.	47	18	19	16	40	17
mean s.e.	6.75	1.25	1.61	2.13	5.06	3.33
variance	227.50	12.55	25.83	31.62	179.14	44.25
c.v.	68.56	24.65	59.80	58.75	112.88	91.75

Table H-2. Descriptive Statistics of Complete Tools,
Site 41WM56 (Continued)

Tool Class Component	Scrapers Round Rock	Scrapers Clear Fork	Notches Twin Sisters	Notches Clear Fork	Notches San Geronimo	Backed P. San Geronimo
N	13	8	19	7	7	10
L: mean	40	50	43	41	87	80
s.d.	15.38	10.06	12.15	17.84	23.75	13.09
min.val.	25	38	24	12	67	60
max.val.	78	67	73	71	134	103
mean s.e.	4.26	3.56	2.79	6.74	8.98	4.14
variance	236.40	101.14	147.69	318.33	564.24	171.34
c.v.	38.15	20.11	28.51	43.52	27.39	16.30
W: mean	35	39	29.05	31	48	38
s.d.	10.09	14.09	10.54	11.62	8.50	11.34
min.val.	15	18	18	19	41	31
max.val.	46	65	59	52	62	67
mean s.e.	2.80	4.98	2.42	4.39	3.21	3.59
variance	101.73	198.57	111.05	135.00	72.24	128.62
c.v.	29.07	36.60	36.27	37.48	17.81	30.00
T: mean	14	16	10	11	12	11
s.d.	4.91	6.04	3.68	5.62	5.42	3.13
min.val.	6	8	6	6	7	7
max.val.	23	24	20	23	21	17
mean s.e.	1.36	2.14	.84	2.13	2.05	.99
variance	24.06	36.50	13.59	31.62	29.33	9.79
c.v.	35.83	38.36	37.55	49.20	45.13	29.24

Table H-2. Descriptive Statistics of Complete Tools,
Site 41WM56 (Continued)

Tool Class Component	Bifaces San Geronimo	Preforms Clear Fork
N	4	7
L: mean	85	89
s.d.	9.43	16.88
min.val.	74	67
max.val.	94	109
mean s.e.	4.71	6.38
variance	88.92	284.90
c.v.	11.06	18.91
W: mean	35	57
s.d.	6.14	10.90
min.val.	26	46
max.val.	39	75
mean s.e.	3.07	4.12
variance	37.67	118.90
c.v.	17.79	19.04
T: mean	17	20
s.d.	1.71	5.63
min.val.	15	13
max.val.	19	27
mean s.e.	.85	2.13
variance	2.92	31.67
c.v.	10.20	28.14

Table H-3. Descriptive Statistics of Complete Tools,
Site 41MM73

Tool Class		Notches
Component		Round Rock
N		4
L:	mean	69
	s.d.	13.40
	min.val.	54
	max.val.	82
	mean s.e.	6.70
	variance	179.58
	c.v.	19.49
W:	mean	49
	s.d.	15.37
	min.val.	35
	max.val.	64
	mean s.e.	7.69
	variance	236.50
	c.v.	31.21
T:	mean	12
	s.d.	2.50
	min.val.	9
	max.val.	15
	mean s.e.	1.25
	variance	6.25
	c.v.	20.41

Table H-4: Descriptive Statistics of Complete Tools,
North Fork Reservoir

Tool Class Component	Scrapers Twin Sisters	Scrapers Round Rock	Scrapers Round Rock/ Clear Fork	Scrapers Clear Fork	Notches Twin Sisters	Notches Round Rock
N	4	8	5	10	13	5
L: mean	66	69	60	63	37	74
s.d.	21.62	21.76	22.34	24.18	11.15	17.16
min.val.	49	39	35	28	20	54
max.val.	95	108	90	110	56	97
mean s.e.	10.81	7.69	9.99	7.65	3.09	7.67
variance	467.33	473.64	499.20	584.72	124.26	294.30
c.v.	32.75	31.43	37.11	38.69	30.637	23.06
W: mean	58	61	54	55	32	51
s.d.	9.90	11.83	7.76	22.71	10.32	14.15
min.val.	49	46	46	34	20	35
max.val.	68	83	67	101	53	64
mean s.e.	4.95	4.18	3.47	7.18	2.86	6.33
variance	98.00	139.84	60.20	515.60	106.56	200.30
c.v.	17.07	19.35	14.32	40.99	31.95	27.54
T: mean	18.75	22	15	15	7.85	16
s.d.	10.59	11.99	3.65	3.65	4.62	8.66
min.val.	7	8	8	8	3	9
max.val.	30	47	20	20	19	31
mean s.e.	5.30	4.24	1.15	1.15	1.28	3.87
variance	112.25	143.71	13.30	13.29	21.31	75.00
c.v.	5.06	55.76	38.62	23.98	58.83	54.13

Table H-4: Descriptive Statistics of Complete Tools,
North Fork Reservoir (Continued)

Tool Class Component	Notches Clear Fork	Notches San Geronimo	Trun- cations Austin/ Twin Sisters	Trun- cations Twin Sisters	Backed San Geronimo	Burins Austin/ Twin Sisters
N	9	7	4	5	4	4
L: mean	45	30	33	47	41	63
s.d.	23.16	13.46	21.63	29.17	20.49	21.56
min.val.	15	12	10	31	20	44
max.val.	98	47	58	99	64	94
mean s.e.	7.72	5.09	10.81	13.04	10.25	10.78
variance	536.28	181.2	467.67	850.70	420.00	464.92
c.v.	50.96	45.31	66.54	61.79	49.99	34.09
W: mean	37	34.86	30	29	31	41
s.d.	16.89	21.84	13.54	9.66	20.98	13.43
min.val.	19	12	16	17	15	27
max.val.	66	65	47	43	59	57
mean s.e.	5.63	8.26	6.77	4.32	10.49	6.71
variance	285.11	477.14	183.33	93.30	440.25	180.25
c.v.	45.77	62.67	45.13	33.77	67.14	32.95
T: mean	9	11.86	4	9	7	12
s.d.	5.44	13.38	1.63	4.39	6.65	4.24
min.val.	2	2	2	4	2	7
max.val.	16	40	6	15	17	16
mean s.e.	1.81	5.06	.82	1.96	3.33	2.12
variance	29.62	179.14	2.67	19.30	278.33	18.00
c.v.	59.73	122.88	40.83	51.08	56.55	35.36

Table H-4: Descriptive Statistics of Complete Tools,
North Fork Reservoir (Continued)

Tool Class Component	Burins Twin Sisters	Burins Round Rock	Burins Clear Fork	Burins San Geronimo	Bifaces Twin Sisters	Bifaces Round Rock
N	17	9	19	7	5	9
L: mean	40	48	43	41	78	83
s.d.	14.09	10.65	12.15	17.84	15.50	21.85
min.val.	23	35	24	12	50	65
max.val.	78	67	73	71	87	13.4
mean s.e.	3.42	3.55	2.79	6.74	6.93	7.28
variance	198.47	113.50	147.69	318.33	240.30	477.53
c.v.	35.48	22.04	28.51	43.52	19.98	26.19
W: mean	34	37	29	31	36	47
s.d.	9.61	13.73	10.54	11.62	5.93	8.17
min.val.	15	18	18	19	28	38
max.val.	46	65	59	52	42	62
mean s.e.	2.33	4.58	2.42	4.39	2.65	2.72
variance	92.40	188.44	111.05	135.00	35.20	66.75
c.v.	28.42	36.88	36.27	37.48	16.57	17.83
T: mean	12	15	10	11	8	13
s.d.	5.16	6.08	3.68	5.62	1.10	6.55
min.val.	5	8	6	6	7	7
max.val.	23	24	20	23	10	25
mean s.e.	1.25	2.03	.84	2.13	.49	2.18
variance	26.63	37.00	13.51	31.62	1.20	42.86
c.v.	41.58	40.55	37.55	49.20	13.36	49.93

Table H-4: Descriptive Statistics of Complete Tools,
North Fork Reservoir (Continued)

Tool Class Component	Bifaces Clear Fork	Bifaces San Geronimo	Bifaces Clear Fork
N	10	4	7
L: mean	80	85	89
s.d.	13.09	9.43	16.88
min.val.	60	74	67
max.val.	103	94	109
mean s.e.	4.14	4.71	6.38
variance	171.34	88.52	284.90
c.v.	16.30	11.06	18.91
W: mean	38	35	57
s.d.	11.34	6.14	10.90
min.val.	31	26	46
max.val.	67	39	75
mean s.e.	3.59	3.07	4.12
variance	128.62	37.67	118.90
c.v.	30.00	17.79	19.04
T: mean	11	17	20
s.d.	3.13	1.71	5.63
min.val.	7	15	13
max.val.	17	19	27
mean s.e.	.99	.85	2.13
variance	9.79	2.92	31.67
c.v.	29.24	10.20	28.14

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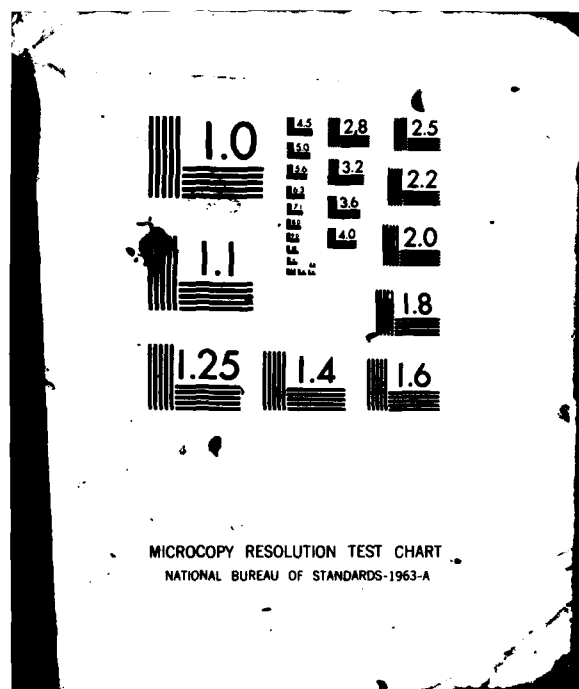


Table H-5: Descriptive Statistics of Complete Tools,
Site 41WM124

Tool Class Component	Notches San Marcos
N	4
L: mean	32
s.d.	8.19
min.val.	24
max.val.	40
mean s.e.	4.09
variance	67.00
c.v.	25.99
W: mean	29
s.d.	6.34
min.val.	20
max.val.	35
mean s.e.	3.17
variance	40.25
c.v.	22.07
T: mean	5
s.d.	2.00
min.val.	4
max.val.	8
mean s.e.	1.00
variance	4.00
c.v.	24.41

Table H-6. Descriptive Statistics of Complete Tools,
Site 41WM230

Tool Class Component	Notches Twin Sisters	Burins Twin Sisters	Burins San Marcos	Bifaces Twin Sisters	Bifaces Round Rock
N	6	4	4	30	6
L: mean	25	50	45	74	76
s.d.	8.94	12.07	16.39	12.17	20.04
min.val.	17	33	22	53	45
max.val.	40	59	59	94	98
mean s.e.	3.65	6.03	8.20	2.22	8.18
variance	79.87	145.67	268.67	148.13	401.77
c.v.	35.28	24.38	36.43	16.39	26.32
W: mean	20	46	24	46	45
s.d.	6.26	13.07	1.63	14.88	15.28
min.val.	28	60	26	70	64
mean s.e.	2.56	6.54	.82	2.72	6.24
variance	39.20	170.92	2.67	2221.48	233.60
c.v.	31.31	28.58	6.80	32.49	33.96
T: mean	4	17	8	18	14
s.d.	1.05	6.08	.96	9.57	5.89
min.val.	2	8	7	6	6
max.val.	5	22	9	40	22
mean s.e.	.43	3.04	.48	1.75	2.40
variance	1.10	36.92	.92	91.61	34.67
c.v.	29.97	36.27	12.35	52.59	43.08

Table H-7. Descriptive Statistics of Complete Tools,
Site 41WM267

Tool Class Component	Scrapers San Marcos	Denti- culates San Marcos	Denti- culates Clear Fork	Notches Clear Fork	Notches San Geronimo	Trunca- tions Clear Fork
N	8	4	10	5	7	5
L: mean	67	49	46	36	42	31
s.d.	14.60	28.41	17.88	11.97	18.70	20.44
min.val.	47	32	20	26	12	17
max.val.	84	91	70	54	70	66
mean s.e.	5.16	14.20	5.65	5.35	7.07	9.14
variance	213.14	807.00	319.73	143.20	349.57	417.80
c.v.	21.79	58.57	38.70	33.06	44.22	65.10
W: mean	65	46	41	25	29	27
s.d.	16.91	9.98	18.81	12.39	9.71	8.23
min.val.	33	37	9	15	15	17
max.val.	87	59	74	45	43	36
mean s.e.	5.98	4.99	5.95	5.54	3.67	3.68
variance	285.84	99.67	353.79	153.50	94.24	67.70
c.v.	25.96	21.94	46.21	49.56	33.81	30.25
T: mean	22	16	12	6	7	6
s.d.	5.48	8.70	8.39	4.51	6.48	3.27
min.val.	13	7	3	3	2	3
max.val.	28	27	25	15	21	11
mean s.e.	1.94	4.35	2.65	2.01	2.44	1.46
variance	30.00	75.67	70.40	20.30	41.57	10.70
c.v.	24.90	56.12	71.12	70.40	96.03	56.40

Table H-7. Descriptive Statistics of Complete Tools,
Site 41WM267 (Continued)

Tool Class Component	Burins San Marcos	Burins Clear Fork	Bifaces San Marcos	Bifaces Clear Fork	Preforms San Marcos	Preforms Clear Fork
N	6	10	4	13	4	6
L: mean	47	48	70	75	81	77
s.d.	16.32	19.06	16.79	22.19	12.42	24.84
min.val.	31	17	46	10	70	48
max.val.	68	74	85	99	92	119
mean s.e.	6.66	6.03	8.40	6.15	6.21	10.14
variance	266.30	363.16	282.00	492.31	154.25	617.20
c.v.	35.09	39.37	23.99	29.65	15.38	32.26
W: mean	32	26	40	29	52	46
s.d.	13.02	8.20	14.70	4.54	9.00	8.09
min.val.	18	14	28	3	41	31
max.val.	48	38	58	44	63	53
mean s.e.	5.31	2.59	7.35	3.20	4.50	3.30
variance	169.47	67.29	216.00	133.06	81.00	65.47
c.v.	40.26	31.31	36.74	40.20	17.48	17.72
T: mean	10	9	17	12	25	21
s.d.	5.31	3.77	4.43	5.68	6.22	2.43
min.val.	4	6	11	1	20	17
max.val.	17	16	21	23	34	24
mean s.e.	2.17	1.19	2.22	1.57	3.11	.99
variance	28.17	14.23	19.67	32.24	38.67	5.90
c.v.	52.20	40.57	26.88	47.63	24.87	11.85

Table H-8. Descriptive Statistics of Complete Tools,
Granger Reservoir

Tool Class Component	Scrapers Twin Sisters	Scrapers San Marcos	Denti- culates San Marcos	Denti- culates Clear Fork	Notches Twin Sisters	Notches San Marcos
N	6	13	5	10	10	8
L: mean	43	64	51	46	30	36
s.d.	25.20	17.87	25.13	17.88	9.65	15.90
min.val.	15	22	32	20	17	24
max.val.	89	84	91	70	43	72
mean s.e.	10.29	4.96	11.24	5.65	3.05	5.62
variance	635.10	319.36	631.70	319.73	93.07	252.56
c.v.	59.30	28.02	49.48	38.70	32.37	44.79
W: mean	39	57	48	41	24	31
s.d.	18.74	20.28	10.55	18.81	11.54	13.76
min.val.	13	23	37	9	11	20
max.val.	63	87	59	74	53	63
mean s.e.	7.65	5.63	4.72	5.95	3.65	4.87
variance	351.10	411.44	111.20	353.79	133.17	189.41
c.v.	48.67	35.30	21.88	46.21	49.11	43.87
T: mean	12	18	17	12	4	6
s.d.	8.92	7.98	8.25	8.39	2.50	6.61
min.val.	4	5	7	3	2	2
max.val.	29	28	27	25	11	22
mean s.e.	3.64	2.21	3.69	2.65	.79	2.34
variance	79.50	63.69	68.00	70.40	6.27	43.64
c.v.	77.53	44.91	48.51	71.11	56.89	105.70

Table H-8. Descriptive Statistics of Complete Tools,
Granger Reservoir (Continued)

Tool Class Component	Notches Clear Fork	Notches San Geronimo	Gravers San Marcos	Trun- cations Twin Sisters	Trun- cations Clear Fork	Backed San Marcos
N	5	7	4	5	5	4
L: mean	36	42	31	24	31	33
s.d.	11.97	18.70	11.35	9.49	20.44	12.15
min.val.	26	12	23	13	17	21
max.val.	54	70	48	39	66	48
mean s.e.	5.35	7.07	5.68	4.24	9.14	6.07
variance	143.20	349.57	128.92	90.00	417.80	147.58
c.v.	33.06	44.22	36.33	39.53	65.10	36.54
W: mean	25	29	31	23	27	17
s.d.	12.39	9.71	4.97	9.90	8.23	8.81
min.val.	15	15	27	16	17	9
max.val.	45	43	38	40	36	29
mean s.e.	5.54	3.67	2.48	4.43	3.68	4.41
variance	153.50	94.24	24.67	98.00	67.70	77.58
c.v.	49.56	33.81	16.02	43.04	30.25	52.59
T: mean	6	7	8	5	6	4
s.d.	4.51	6.45	4.27	2.95	3.27	1.63
min.val.	3	2	5	3	3	2
max.val.	14	21	14	10	11	6
mean s.e.	2.01	2.44	2.14	1.32	1.46	.82
variance	20.30	41.57	18.25	8.70	10.70	2.67
c.v.	70.40	96.03	55.12	56.72	56.40	40.83

Table H-8. Descriptive Statistics of Complete Tools,
Granger Reservoir (Continued)

Tool Class Component	Burins Twin Sisters	Burins San Marcos	Burins Clear Fork	Bifaces Twin Sisters	Bifaces San Marcos	Bifaces Round Rock
N	7	11	10	34	7	6
L: mean	45	44.18	48	72	66	76
s.d.	15.75	15.71	19.06	13.82	14.06	20.04
min.val.	24	22	17	46	46	45
max.val.	64	68	74	94	85	98
mean s.e.	5.95	4.74	6.03	2.37	5.31	8.18
variance	247.95	246.76	363.16	190.86	197.57	401.77
c.v.	34.66	35.56	39.37	19.32	21.39	26.32
W: mean	44	28	26	43	37	45
s.d.	13.08	10.33	8.20	15.38	11.60	15.28
min.val.	27	18	14	22	27	23
max.val.	60	48	38	70	58	64
mean s.e.	4.94	3.11	2.59	2.64	4.39	6.24
variance	171.00	106.65	67.29	236.62	134.62	233.60
c.v.	29.72	36.41	31.31	35.39	31.00	33.96
T: mean	15	9	9	17	14	14
s.d.	5.47	4.09	3.77	9.65	4.51	5.89
min.val.	8	4	6	5	9	6
max.val.	22	17	16	40	21	22
mean s.e.	2.07	1.23	1.19	1.66	1.70	2.40
variance	29.95	16.69	14.23	93.15	20.33	34.67
c.v.	35.47	45.86	40.57	56.97	32.21	43.08

Table H-8. Descriptive Statistics of Complete Tools,
Granger Reservoir (Continued)

Tool Class Component	Bifaces Clear Fork	Preforms San Marcos	Preforms Clear Fork
N	13	4	6
L: mean	75	81	77
s.d.	22.19	12.42	24.85
min.val.	10	70	48
max.val.	99	82	119
mean s.e.	6.15	6.21	10.14
variance	492.31	154.25	617.20
c.v.	29.65	15.38	32.26
W: mean	28.69	52	46
s.d.	11.54	9.00	8.09
min.val.	3	41	31
max.val.	44	63	53
mean s.e.	3.20	4.50	3.30
variance	133.06	81.00	65.47
c.v.	40.20	17.48	17.72
T: mean	12	25	21
s.d.	5.68	6.22	2.43
min.val.	1	20	17
max.val.	23	34	24
mean s.e.	1.57	3.11	.99
variance	32.24	38.67	5.90
c.v.	47.63	24.87	11.85

Appendix I:

Hoxie San Gabriel Ranch Interviews

NARRATORS

Narrator	Interviewer	Date	Hours on Tape	Quality of Tape
Allison, Charles	Brooks, Gilmore	12-7-78	1	good
Allison, Charles and Mrs. Danna	Brooks	5-22-79	2	poor
Bible, Mrs. D.X.	Brooks	6-14-79	2	poor
Bryan, Mrs. Alvin and Bobby	Brooks	4-24-79	2	poor
Barton, Arthur P. and Prewitt, Mrs. Susie	Brooks	5-22-79	1	poor
Cornforth, Mrs. Ruby	Lavender	5-21-79	1	good
Dabbs, Mrs. Elizabeth	Lavender	5-17-79	1	good
David, Mrs. Elo	Brooks	5-25-79	1	good
Engdahl, Mrs. Carrie	Brooks	5-24-79	1	poor
Fox, H. B.	Brooks	6-18-79	1	good
Freeman, Martha	Brooks	1-19-79	3	good
Ging, Curtis and Tracy	Brooks	5-24-79	2	good
Juergens, Mrs. Ella	Lavender	5-10-79	1	good
Knox, Mrs. Raymond	Lavender	5-16-79	1	good
Lenz, Mrs. Herman Sr. and Herman Jr.	Lavender	5-79	1	good
Machu, Polacek, Ging Loesin	Brooks	6-13-79	3	good
Malek, Ernest	Brooks	5-25-79	1	good
Martin, Mr.&Mrs. J.B.	Gilmore/Humphries	5-9-78	1	good
Martin, Mr. & Mrs. J.B.	Lavender	5-9-79	2	good
Polacek, Mr. & Mrs. Rudolph	Lavender	5-21-79	1	good
Pope, Mrs. Hattie	Brooks	6-18-79	1	good
Redwood, Mary D.	Brooks	6-12-79	4	good
Richter, Langdon	Brooks	5-22-79	1	poor
Scarborough, Clara	Brooks	1-31-79	2	poor
Scarborough, Linc	Brooks	10-7-79	1	good
Schroeder, Theo	Lavender	5-79	untaped interview	
Whatley, Agnes Allison	Brooks/Gilmore	5-17-79	untaped interview	

Narrator: C. C. Allison, Austin, Texas

Date: December 7, 1978

Interviewers: Kathleen Gilmore and Roy B. Brooks

SUMMARY

Family History

C. C. Allison is the grandson of Francis Allison who bought the Hoxie Ranch in 1910. Hoxie obtained 38,000 acres from the Mexican government. Francis Allison bought 7,000 acres of this property in 1910 for \$50 an acre. He had tried to purchase it in the 1890's when the price was 50¢ per acre, but was unable to raise the money. From that point on the Hoxie land was sold in small parcels every year in order to pay off the mortgage. Three thousand five hundred acres out of the 7,000 acre original tract were sold in this manner. In 1915, upon Francis Allison's death, his son, Ferguson, took ownership of the property. He began to rent the land on halves--that is, tenant farmers rented the land and the landowners provided equipment. When land is rented on "thirds and fourths," the tenant rented land but provided his own equipment and animals. Cotton was the primary crop, maize and corn followed. One hundred forty-two sharecropping tenant families lived on Hoxie land at one time. Charles Allison has inherited the remaining 400 acres.

Hoxie Artifacts and Features

Mr. Benight has possession of the bell from the top of the old house. Forty to fifty various artifacts associated with Hoxie house

are extant. C. C. Allison has two chairs saved from the burning house; one is a carved dining room armchair.

The original Hoxie barn, built in 1839 had among its timbers tongues from wagons used to haul lumber from Corpus Christi. In 1942 the deteriorating three-story barn was demolished and rebuilt by Robert and John Crenig for \$225. After condemnation by the government, Allison bought back the structure for \$100 and salvaged the original lumber.

When Hoxie burned, a wooden lean-to structure on the back of the house which faced south was saved by pulling it away from the main house with mules or tractors. It was later incorporated into the "box house sitting on stilts" on the property.

In 1953 Mrs. Allison employed a Mr. Renicanek to fill in the Hoxie basement with a bulldozer. It had been used as a dump for two decades. Mr. W. D. Hubble witnessed this event.

Allison's Role in Hoxie History

Dr. Allison views himself as "a steward of the land." He would like to see several things accomplished in a report on Hoxie. He feels the thorough documentation of local history softens the blow of change. The following are major concerns of Dr. Allison:

- 1) Documentation of the chronological line of people associated with Hoxie post-1937.
- 2) A lineage of the Hoxie house since its erection in the 1880's, including documentation and conservation of associated artifacts and features.
- 3) A report inclusion of the case he, Charles Allison, filed against the government concerning the dam

project, its objectives, impact, and disposition.

This suit was held before Judge Brown in the 5th Appellate Court in New Orleans, Louisiana in about 1973. It was one of the first environmental issue cases before this court. Allison was suing the government on a cost-benefit ratio basis. He was allowed to address the bench for about one and a half hours which was an unprecedented allotment. Allison and one lawyer stood against the Corps of Engineers and thirty-two lawyers and aides. This suit halted seven Corps projects for an eleven-month period at an estimated cost of \$49,000 a day. He felt that this case made government agencies reconsider their treatment of environmental issues and the impact resulting from their projects.

Allison would like to see excavations of Hoxie house and area folklore recorded. He tried to promote a museum on the site which involved moving the Allison's Flag Springs house onto the old foundations of Hoxie house. He planned to have interpretations of local culture and economy in terms of the Hoxie Ranch because it touched the lives of almost everyone in the area. He was unable to get support for the project and it fell through.

Hoxie Folklore

Mr. Martinka of Taylor is reported to have kept a detailed record of local folklore. Several stories of outlaws and robbers, one apparently documented, center around Hoxie. The house was said to be a way station for stage lines running from St. Louis to San Antonio, and from Kansas to Corpus Christi. Gold is supposedly buried on the property as a result of an Indian attack on a gold shipment intended for an Army payroll at San Antonio. There are tales of shooting, hangings,

I-6

headless horsemen and numerous shady dealings in Williamson County that all relate in some way to the Hoxie Ranch.

Narrator: Mrs. Elizabeth Dabbs, Taylor, Texas

Date: May 17, 1979

Interviewer: Linda Lavender

SUMMARY

Mrs. Dabbs was born in Taylor in 1912. Her father was from South Carolina, and her mother was a McDavid from Taylor. Mrs. Dabbs' maiden name was Lathan. She was married in 1936 and worked in the Taylor library for 14 years.

Mrs. Dabbs visited the Hoxie house in the late 1930's, three to four months before it burned down. Mr. Gernert owned the property at the time and gave Mrs. Dabbs permission to visit the house. Mr. Gernert's wife was the daughter of the Welch's in Taylor, owner of the First National Bank. When they married, the First Taylor National Bank, of which Mr. Gernert was President, merged with the First National Bank.

At the time Mrs. Dabbs saw the house, Mr. Sefcik was living in one room of the house, "batching it." Mrs. Dabbs described the house as very bare with no rugs, and not a stitch of paint. The basement was built to hide horses during Indian raids, but was used for storing and curing beef. The staircase was built with square lead nails and was, according to Mrs. Dabbs, very ungraceful. The house wasn't as pretty as the Allison home in Flag Springs. Though she remembers her husband saying there were trees in the back, Mrs. Dabbs remembers the residence as a "big, old stark house out there on the prairie."

I-8

Narrator: Mrs. Elo (Rose) David, 910 Kent St., Taylor, Texas

Date: May 25, 1979

Interviewer: Roy D. Brooks

SUMMARY

Early Years at Hoxie

Mrs. Elo David, born in 1912, lived on the Hoxie Ranch as a child with her parents, and later as a married woman. She and her husband were both of Czechoslovakian descent. Her parents moved from a farm in East Williamson County to the Hoxie property in about 1918, and lived in a bungalow which still stands. Her father, Joseph A. Marek, bought the Hoxie cotton gin, but the newly equipped structure burned down before it began operation. Arson was suspected, but not proven. The family never recovered financially from this blow and soon moved away. As a child, Mrs. David recalled the Hoxie house as "pretty" and that the Sefciks lived there at the time, along with a deaf, mute hired hand named Leroy, who she thinks the Sefciks brought back from Czechoslovakia.

Later Years at Hoxie

In 1942, after her marriage to Elo David, the couple moved back to the Hoxie Ranch. They lived in two houses at various times--the first was a small house "on the road that would go straight across the old rickety bridge." The second house was "on the hill where the old house stood." While they lived at Hoxie the barn was rebuilt, she thinks, by brothers John and Albert Benight. After the Hoxie house burned, the property had deteriorated. There was no water in the cistern and debris

and rubble filled the basement which seemed to Mrs. David to be about five feet deep. Other tenants on the property were the Beliciks and George Simcik. Mrs. David noted that although a close knit group, the Czechs tended to separate into Moravian or Bohemian segments. The Davids left their Hoxie residence after a rental dispute with the landowner, Mrs. Danna Allison, who wanted money per acre for rent rather than the "thirds and fourths" arrangement Mr. David preferred.

Flooding on the San Gabriel

After their move to the north side of the river, west of Laneport, Mrs. David recalls the "quick rain floods" on the river and sloughs which made crossing impossible. The children had to return from school in Friendship by way of Granger. The floods also deposited weed seeds on the fields creating hard work for the farmers to eradicate. The Simciks often had to evacuate because of flood waters. Their house was bought by the Mensinmeirs, and later by the Rables who moved it to a site near Taylor. Mrs. David remembered the 1921 flood as devastating. Below Laneport an entire Mexican family was drowned with the exception of one child who climbed a tree to safety and later erected a stone marker near Georgetown in memory of his family.

Friendship

Mrs. David's children began school in Friendship, before it consolidated with Granger. At that time it consisted of a gin, school, cemetery, grocery store, beer joint, and one or two houses. The Youngs, now deceased, lived nearby before they retired and moved to Granger. Mrs. David remembered a few Mexican families lived there for a while.

I-10

Narrator: H. B. Fox, Circleville, Texas

Date: June 18, 1979

Interviewer: Roy B. Brooks

SUMMARY

Family Background

Howard B. Fox, termed the "Circleville Philosopher," is an author and nationally syndicated columnist of thirty years. He was born in 1910, the third of seven Fox children: Wilson, a lawyer, now deceased; Walter, a newspaper man, also deceased; Mary Elizabeth, Bryan, Howard, and Francis. All the children were born in Granger and educated at Southwestern University in Georgetown. Their father, "an ambitious man," was from Fox Hollow, Tennessee and came to Taylor alone as a young man. He later brought his mother to Texas and supported her until her death. In Taylor he worked for a sawmill company, married, began a family, and started his own lumber business in Granger. H. B. fictionalized an account of his father's emergence as an independent businessman in his book, The Two Thousand Mile Turtle. He describes his father as an extremely hardworking, enterprising, and admirable man.

While a student at Southwestern, Howard was threatened with expulsion in an incident involving a satirical issue of the Megaphone, the campus daily which he edited. Upon graduation with a degree in English, he spent a year in New York City, after which he returned to Texas where he worked as a reporter on the Taylor Press for \$15 a week during the depression. He later went to the Austin Dispatch, then

published his own newspaper in the East Texas town of Centerville where he met and married Marie Price, also a newspaper writer. He again returned to Williamson County in about 1944 after a stint in the Army.

Citizen Reaction to the Reservoir

In 1964, or "about fifteen years ago," locals supported initial word of a proposed reservoir. When the size and impact of the project became clearer, opinions changed and it was successfully resisted for twelve years. According to H. B. Fox, a strong objection to the reservoir is the method by which the Corps of Engineers acquired land. Threats of condemnation are aimed at "weaker" landowners and unfair prices result. Fox claims people were in favor of flood control, but preferred small check dams along the river which would have provided many small ponds rather than one huge shallow reservoir with a widely fluctuating shoreline. Citizens organized a water district which supported the small dam system by a three to one majority. A meeting in Georgetown overwhelmingly opposed the reservoir project. Fox further claims that a year or so after this meeting the Corps held another meeting in Austin, but notified only those in favor of the project; thus the record shows unanimous support.

I-12

Narrators: Mr. and Mrs. Curtis Ging, Mr. and Mrs. Pope; Granger, Texas

Date: May 29, 1979

Interviewer: Roy D. Brooks

SUMMARY

Family History

Mr. and Mrs. Ging lived on the Hoxie Ranch near the site of the old Hoxie house from 1968 to 1974. They farmed for Dr. Charles Allison, the present owner and descendant of Francis Allison. The Gings took over the property after Mr. Lenz, the previous tenant, died. They lived on the property during Dr. Allison's litigation with the Corps of Engineers and while surveying for the dam and purchasing property for the reservoir was taking place.

The Ging children are the fourth generation of Mrs. Ging's family living in the "Gabriel Valley." She is a member of the Polacek family. Her grandfather Polacek came to Williamson County from Czechoslovakia in the late 1800's. Mrs. Ging's mother was a Hadja, also of Czechoslovakian origin.

Mr. Ging's grandfather, Herman Ging, was born in Switzerland and came to America with his family in 1884. Herman Ging was two years old when the family first arrived in America and settled in Bellville, Texas. Five years later, in 1889, the family moved to Copeland, Texas and began to cultivate land there. January 4, 1901 Herman Ging was married to "Grandmother Ging" (Maiden name lost due to gap in tape) who was living in Copeland but had originally come to America from Germany. Mr. Ging's father was a child of this union. Mr. Ging's

mother was a member of the Getz family. This family came to Texas from Illinois in a wagon before she was born.

Farming at Hoxie

The Gings took over the farm on the Hoxie Ranch in 1968. At the time they moved there the river bottom land was very overgrown. This was probably due to the extended illness of the previous tenant, Mr. Lenz. It was impossible to walk through this "bottom land" which was overgrown with briar, small trees and brush. Mr. Ging and Dr. Allison shredded and cleared this area and thereafter it had to be cut four to five times a year to be maintained.

At the Hoxie place the Gings raised cotton and maize on thirds and fourths and cattle on halves. The sixty head of cattle grazed on a 250-acre pasture. By this time, the use of sophisticated farm equipment was much in evidence. The Gings mention using such things as a 6 row shredder with hydraulic lift (implement pulled by tractors) stripper trailers (pulled by tractors) 560 Farm All tractor, John Deere Tractor, and combine for maize.

Hoxie

Mr. Ging states lots of artifacts could be found just laying around the pastures on the Hoxie. He mentions snuff bottles, arrowheads and parts of an old wagon in particular. At the time the Gings lived near the old Sunnyside site the cistern and evidence of a brick sidewalk from the old house were still there. Mr. Ging feels sure he could point out the parts of the foundation wall of the old cellar. The well on the site never dried up the entire time the Gings were living there.

Mr. Ging relates that at one point in time it was possible for taxpayers to pay off their taxes by hauling gravel from the gravel pit. They hauled two or three loads on the county road and their tax money was paid.

Often University of Texas and Southwestern University fraternity groups would bring freshman students down to the San Gabriel River bottom for initiations. The Gings recall several incidents of students being dumped near their house dressed only in tow sacks. This was usually done in freezing weather and the semi-clothed students would be expected to find a way back to campus on their own. The Gings speculate that the area was popular for this sort of thing because it was rather isolated and there were no towns nearby.

There was a beautiful picnic spot on the "bottom" land near Hoxie Bridge. The Gings went there often to picnic and also gave permission for groups and individuals to camp and barbecue there from time to time. This spot was underneath a large pecan tree. Mrs. Ging's father, Mr. Polacek, recalls this tree as being large when he was small (he is now seventy).

Flooding

According to the Gings, extensive river flooding occurred in 1921, 1957, 1968, and 1974. Their only experience with flooding was in 1974. The high water washed all their fences away. The river stayed up about a day before receding. Ging states that the area's main runoff is from Georgetown. It normally takes high water about 24 hours to get from Georgetown to the Granger area. So, if there were big rains in

Georgetown, there was always about 24 hours warning. This enabled residents to move their cattle out of low areas and prepare for high water.

Folklore

About midpoint in the conversation, friends of the Gings, the Popes, arrived and a more general discussion began. Tales of ghost stories were reviewed for the interviewer and then a general discussion on the dam and the Army Corps of Engineers ensued.

Mrs. Ging's father, Mr. Polacek, and her uncle, Luke Polacek, tell several stories about ghosts on the Hoxie Bridge. Mr. Ging feels these are "crap" but the others are not so sure there isn't some truth to them. Mr. Pope tells the story of a group of young people going to the Hoxie Bridge to check out the ghost stories. There were five or six young men in the group but by the time they got to the bridge all of them had "chickened out" except one who didn't get scared. No one saw him for two or three days after this. When the young man did appear, his black hair had turned completely white. Mr. Ging feels the rest of the boys went back and scared him badly, causing the hair to turn white. Mrs. Ging feels her Uncle Luke was present on this occasion. Mr. Pope feels sure it is true that the young man's hair turned white, as he has heard it from many different sources. Mrs. Ging states her father tells this story and it is true.

Mr. Ging states "they say" that old man Simcik burnt it [Hoxie house] down, ". . . they said he set it on fire making his home brew and burnt it down." Mr. Pope agrees that it happened differently from the way it was supposed to have happened.

Hoxie Community and the Army Corps of Engineers

The Gings lived at Hoxie during the time surveying for the dam was conducted. Surveyors began coming on the land about 1972. Mr. Ging had problems with them driving across the crops on his river bottom land near the San Gabriel. Several stories about landowners forcing surveyors off the land at gunpoint which occurred at this time were related. Fences were cut often during this same period. When word got out that the government was buying land, people began to come onto the Gings' property to fish or camp, thinking it was already government land. Trespassing became a real problem after the government began buying. At first it wasn't a problem. Fences were cut mostly to gain access to land on the river bottom.

Mrs. Ging's father, Mr. Polacek, was the third person to sell his land to the government for the dam project. Mr. Ging tried to talk the seventy-year-old Czech gentleman out of selling so soon for what Ging considered to be a small price, but to no avail. Mr. Polacek sold his 60 or 70 acres for \$480.00 per acre and got to keep his house. Polacek felt this was quite a good deal since he had originally bought the farm for \$68.00 per acre. However, according to Mr. Ging, toward the end of the land buying process, the Corps was paying over \$400.00 per acre for easement privileges and much, much more than this to the landowners who held out.

The Gings and the Popes all feel that a lot of people in the area have bad feelings about the Corps of Engineers. Some of this is due to the way land sales were handled. Ging resents the "damn high fired real estate guys." Pope stated that what made people the maddest

is that these real estate people went first to the older people, such as Mr. Polacek, who were ready to retire. The whole group seems to feel there was some sort of conspiracy, that the Corps must have had inside information to know to pick first on elderly people who were vulnerable. After these people began to sell, the remaining ones didn't have a chance to continue the fight.

After houses were beginning to be sold and vacated, a lot of stealing began to occur. The Popes had three gates stolen. The Gings had an 18-foot metal gate, chain and lock stolen near the picnic grounds by Hoxie Bridge. Another resident, a neighbor of the Polaceks, had his well pump stolen during the hour and a half he left his house one Sunday to attend church services. The group felt incidents such as this were not done by local people but by people from farther away who knew the situation.

The Gings fought moving off Dr. Allison's land for a number of years, but were finally given a warrant to move off the property. Mr. Ging states he was told by the Corps people he would receive \$10,000.00 to move, but the Corps has never come up with what they promised him. So far, he has been paid between six and seven thousand dollars and states, "And then we had to figut to get that." Mr. Ging also feels he was given the "run around" by the government on a number of occasions. ". . . I learned one lesson, never deal with the government unless you've got money in your hand." And Mr. Pope affirms, ". . . the least you have to do with the government, the better off you're going to be."

The Gings and the Popes felt that politics had a great deal to

do with the Granger Dam. They feel the dam was put there because a few people involved in politics wanted it there. They relate that Wilson Fox wanted the dam put where his property would be affected because his land was legally tied up by his father's will which stated it must be handed down to a son and a grandson before it could be sold. Ging states there was a lot of fighting against the dam but it didn't do any good, because there wasn't any politics involved. "There were no real important people involved. The only people against it were the poor farmers--the politics were for it." People went to meetings about the dam for years but it didn't seem to do any good. Ging also states, "Granger has lost--Taylor and Georgetown are for the dam one hundred per cent."

Mrs. Pope recalls the plight of people at Friendship who for thirty years never knew what the government was going to do. They didn't know whether to remodel houses or make improvements on land, "everything was in limbo."

The group felt the economic situation in Granger has also been affected because so many people have moved out of the area. The school system is in financial trouble due to loss of tax money and many businesses have closed down.

Skepticism was expressed about the dam itself. The group feels that the dam won't do much good and that with large rains, flooding will occur despite the dam.

Narrator: Mrs. Ella Etzel Juergens, Taylor, Texas

Date: May 10, 1979

Interviewer: Linda Lavender

SUMMARY

Mrs. Ella Juergens was born July 22, 1908 in Round Top, Texas on Cummins Creek. When she was 18, she was hired as a teacher by the community located on Hoxie lands. She was hired on a 6½ months contract in 1926 to teach grades 1-4 and was paid \$80.00 a month. In the beginning, she lived with her husband and his uncle and aunt in a one-room house 100 yards from the school. She taught 32 children of mostly German and Czech descent, obtaining state-issued textbooks from the depository in Georgetown. The school had no library or PTA; but there was a Christmas program and the teachers often took the children for picnics by the Hoxie Bridge on the banks of the San Gabriel. The nearest school for Blacks was in Friendship, and there was one Mexican family in the area.

By this time, the main Hoxie Ranch had been broken up into small individual farms, and the house was unpainted and no longer a central meeting place for the community. Neighboring families included the Jacobsons who lived on Hare Road and the Tomaceks who lived across from the Steinke's house. Around the corner were the Richenbacks, the Millers, and the Remmerts. Juergens also mentions the Bergs who owned land there.

Later in the school semester, she and her husband moved to the Steinke's Negro house because the house next to the school and the

I-20

nearby cotton gin were sold. The house had no water and they had to carry it from the Steinke's house.

At the completion of her first year of teaching, she was transferred to Waterloo because the trustees felt she was too strict a disciplinarian.

Narrator: Mrs. Raymond Knox, Taylor, Texas

Date: May 16, 1979

Interviewer: Linda Lavender

SUMMARY

Family History

Mrs. Knox was acquainted with the Hoxie Ranch as a child. Her father worked seventeen years for Frances Allison. Mrs. Knox, whose maiden name was Willie Blum, attended school at the Hoxie School. Her father, Oscar J. Blum, farmed thirds and fourths for Mr. Allison on the Hoxie Ranch. Mrs. Knox's mother was related to Mrs. Lankford whose husband was ranch foreman at Hoxie. The Blums referred to the Lankfords as cousins.

Description of Hoxie House

Mrs. Knox visited the Hoxie house often as a child and was able to recall several details concerning the house, basement, and out-buildings. She feels that teams of horses were actually driven into the cellar. She also recalls "Uncle Johnny," a Scotch-Irish gentleman who had a dog named Sprig and who worked for the Lankfords (see Redwood).

Description of Tenant House

The Blums lived in a tenant house on the ranch. It was described as being an ordinary house with a kitchen, dining room, three bedrooms and a porch. The Blums also had an outside cellar in their yard where they went when storms came up. If Mrs. Lankford was at home by herself

when a storm came up she would hitch up her buggy and ride over from the Hoxie house to take shelter in the Blums' cellar.

Crops and Stock

Knox states the land on the Hoxie Ranch was wonderful and her father raised everything. Cotton, corn, and sugar cane were raised primarily. Maize was not grown or known of at the time. Although the cane was real sugar cane, it was not pressed into molasses but was used instead for feeding the stock. Mr. Blum only kept what livestock he needed to work his farm. He farmed with mules. Two horses were kept to pull the fringe-top surrey and a buggy.

Hoxie Ranch History

After the Lankford family left Hoxie, the Lewis family moved into the Hoxie house. This family had a number of children; one of the sons, Orin Lewis, is still living at Marble Falls.

Around 1919 Mrs. Knox moved away from Hoxie Ranch. At this time the Lewis family was still in the house. She returned to the house later to attend dances when the Benight family were living there. Mrs. Knox met her husband of 59 years at a dance held by the Benight family in the Hoxie house. She recalls a large attendance at these functions. There was usually a band playing. She could not recall whether there was a charge to get into the dance. She believes the Benights came when the Lewises left around 1920.

Also mentioned in the interview was the shooting incident involving Mr. Allison and Mr. Wright. This occurred at the Taylor bank; Mr. Wright shot and killed Mr. Allison.

Mrs. Knox stated that area residents often picnicked around the Hoxie Bridge. It was a frequent Sunday gathering place for the children who lived near there.

I-24

Narrators: Mrs. Herman Lenz, Sr. and Herman Lenz, Jr. (Pee Wee)

Date: May, 1979

Interviewer: Linda Lavender

SUMMARY

Family History

Mrs. Lenz and her family have lived and farmed on Hoxie land for many years. Herman Lenz, Jr. was born and lived on the farm until 1954 when he moved to Taylor to work at a funeral home.

Depression Era Farming and Later

Mr. and Mrs. Lenz began farming at Hoxie with seventy acres in 1934. They raised hogs, chickens, and cattle, which they sold at auction. They did all the farm work themselves, growing most of their food, and selling milk, cream, and eggs for cash. Mrs. Lenz "put up" vegetables regularly from the kitchen garden. The main crop was cotton, for the land was "good cotton land." Corn and maize were of less importance and more difficult to harvest. They had to "top by hand" these crops, lacking machines to do the work. Corn and Maize were fed to the chickens, seeds were saved for planting, and the stalks went to the other animals. Although Herman, Jr. remembers his father always having a tractor, one with metal lug wheels, mules were used extensively. Mrs. Lenz remembers working corn with four mules and a double row cultivator.

After planting, farmers used a curved metal wheel pulled by mules or horses to press down the soil. This kept moisture in the soil, preventing the seeds from drying out and was called "rolling."

Fertilizer wasn't used much, though dry manure was sometimes spread on the fields. Yields weren't as much as one bale per acre. Harvest began in July for cotton and corn, and hay was stacked for the cattle. Most people owned their own cotton strippers, but combines were often rented for other crops. The usual payment was "so much per hundred pounds to cut and haul."

Most of the Lenz's neighbors were Germans and Bohemians who helped each other out in times of need. When Mr. Lenz was ill, twenty-four friends and neighbors spent two afternoons stripping over one hundred acres of cotton for the family.

What they didn't provide for themselves the Lenzes bought in Taylor. "Odds and ends" were purchased at the Hoxie store which carried canned goods, bread, and flour. Prices there were higher on some items and lower on others than stores in town.

Lenz recalled C. C. projects in the area responsible for constructing "terrace spillways" for erosion control. Mrs. Lenz remembered the beef co-op meetings in the Hoxie house basement.

In 1966 Mr. and Mrs. Lenz moved to a small white frame house near the site of the old Hoxie house. This farm consisted of approximately 400 acres. By this time most farms had become larger. Most of the land was used for cattle, but some crops were still grown. A few farmers continued to sharecrop on thirds and fourths. To the Lenzes' knowledge, halves were not as common. This last residence was very near the old Hoxie basement which had been filled in some years before. Numerous bricks and stones were the only remnants of the house, no ornamental plants or other artifacts were noted by the Lenzs.

I-26

Narrators: Albin Machu, Rudolph Polacek, Tracy and Curtis Ging, and

Les Loesin

Date: June 13, 1979

Interviewer: Roy D. Brooks

SUMMARY

The Gings, Mr. Machu, Mr. Polacek, and Mr. Loesin were renters or workers connected with Hoxie Ranch. They mentioned several others who were also associated with the property: George Hare, who owned much of the land where the town of Old Allison once was, Mrs. Gilstrap who lived in a log cabin near Hoxie, Wilcox, Eubank, Shoemake, Burkett, and Kirby Vance.

Hoxie Gin and Loesin

Mr. Loesin's grandfather bought the Hoxie gin from A.C. Stearns around 1926 and converted it to hydraulic power. It was a "two in one" gin, two gins in one room. Stearns could gin about four bales an hour with "hand-tromp presses." Men "tromped" the cotton "below the dog in the pressbox." Loesin's grandfather was "ousted" from the Hoxie place during prohibition for distilling whiskey. Loesin has since sold the gin which is in the slow process of being dismantled. The gin hasn't operated since about 1974.

Hoxie House

Rudolph Polacek, born in 1908, rented a house from Ferguson Allison and worked for the Maleks who lived at Hoxie. He used to sleep in the Hoxie house and remembered it was full of Hoxie furniture, and had two pool

tables, one each on the first and second floors where he would shoot pool with the Malek boys. Machu claims the "four"-story house burned in 1937 for two days. Ging heard the rumor that Sefcik was making home brew inside the house and set it on fire. Several stories circulated about the fire's cause. Loesin heard a chimney crack caused the house to ignite. It was thought that Ferguson Allison owned 21,000 acres of Hoxie and wanted to divide and sell it in thirds, and this was related to the fire.

Hoxie Store

The Hoxie store was said to carry a good stock of general merchandise, everything from hardware to candy and flour. Most of the flour was brought from Salado but a small amount came from a mill in Jonah.

Miscellaneous Information

No one had much knowledge of Old Friendship before the 1921 flood. At that time people "didn't travel around much. . .from daylight to dark you stayed in the fields." The 1921 flood washed away the old Hoxie bridge. Loesin helped rebuild the new bridge in 1956. The group claimed the new levee caused the water levels to rise higher in 1957 than in 1921.

The group remembered limestone was quarried below the old gin near the Simcik place. They also described exploring extensive caves on the Kirbey Vance place which Loesin compared to Innerspace Caverns.

Narrators: Mr. and Mrs. Ernest Malek, Taylor, Texas

Date: May 25, 1979

Interviewer: Roy B. Brooks

SUMMARY

Family History

Ernest Malek of German-Czech descent, lived on the Hoxie Ranch site for a number of years. He first came there from El Campo, Texas shortly after the big flood of 1921. Malek's father was a trained blacksmith and had had his own blacksmith shop in El Campo. The Malek family, which included twelve children, farmed on the former ranch site for Mr. Gernert--president of the First National Bank of Taylor at that time--and lived in the Hoxie Ranch house (Sunnyside).

Mrs. Malek never resided on the ranch but was born and raised in Williamson County. Her father was Paul Malish of Williamson County and her mother was Anastasia Stresinger who came to Williamson County from Moravia, Czechoslovakia when she was eight years old.

Of the twelve Malek children who came to Hoxie Ranch, seven were boys. Mr. Malek's father was able to farm quite a large area for Mr. Gernert with the help of his sons. As a youth, Malek helped a sheepherder, Bibliano, care for sheep that Mr. Gernert kept on the land and was rewarded for his work by Gernert with paper boxes of Prince Albert tobacco.

Malek recalls a few details about the ranch house, including the basement and cupola, especially. He describes large double doors on the north side of the house opening to wide steps which led down into

the cellar. Fixtures for carbide lighting were in place in the basement but lanterns were used instead during the Maleks' stay there. To Malek, the cellar seemed so large that a wagon could have almost been turned around in it. He feels both Granger and Taylor could be seen from the cupola and was told by Mr. Livingston, an old cowboy still residing on the ranch, that a lantern was hung in the cupola at night as a beacon to guide the cowboys back to the ranch house. Malek also recalls the porch of the house being so high off the ground that the children could play tag underneath without bending or stooping.

Malek was the second brother of the family; his oldest brother lived in a small house east of the Hoxie house and farmed his own place which included bottom land next to the San Gabriel River. 1925 was a very dry year in the area and everyone had to sell cattle. During this period Malek's brother left his small tenant farm to seek work and Malek eventually took this place over for Mr. Gernert. Malek borrowed money from Mr. Gernert to purchase a team of mules. Mules could be used for as long as 15 years and at that time all farming was done with mules; ". . . we didn't know what a tractor was."

Crops

Malek grew cotton, corn and some cane at his place on the Hoxie Ranch. Maize was not grown at that time. Malek worked on thirds and fourths for Mr. Gernert but states that Gernert also had a lot of half renters working for him.

Artifacts

When the Maleks lived in the ranch house most of the fancy furniture was still in it. Mr. Gernert gave Mr. Malek a dresser from

the house when he moved out of the big house to his small tenant house. This was a reward for the good work Malek had done while living with his father on the large place.

General Information

At the time Malek was living on the ranch most of the land was under cultivation but he understands that when the Hoxies were the owners it was mostly pasture land used for running cattle. Malek can recall no large animals or even deer on the Hoxie while he was there. There were lots of fish, however. Malek also recalls many large soft shell pecan trees near the Hoxie Bridge on Mr. Gernert's property. These trees bore many large nice pecans.

The bottom land near the 'Gabriel is the richest farming land in the area but much of the bottom is flat with no banks; when the river comes up everything is flooded. One year, Mr. Malek lost most of his cotton crop, which was in a trailer ready for ginning, to high water from the Gabriel. "They must have had a big rain in Georgetown, all that water come up and my trailer was halfway under water, cotton in it."

Malek's father stayed in the big house and farmed until his sons began to get married and leave home. Feeling he could no longer farm such a large area, he moved to a smaller place. (See Martin, 1979) Ed Sefcik rented the house and land after Malek's father left.

Malek remained on his small tenant farm several more years after his father left, but eventually moved off the Hoxie. Although his reason for moving is vague, concern over flood damage seemed to be at least a partial cause. Malek is unsure when he left but it can be

estimated from other dates he gave that it was between 1927 and 1933.

Folklore

When asked about some of the folklore stories that are told about the ranch, Malek remarked, "Shoot, . . . never did see nothing, never did." He states that the Polacek boys told the story about the headless man on the Hoxie Bridge and it was "just a lie." Malek fished under the bridge and hunted 'coons all around the area many times at night and saw no ghosts at any time. Malek also recalled that many other people from Granger fished under the bridge at night and failed to see anything unusual.

I-32

Narrators: Mr. and Mrs. J. B. (Bun) Martin, Taylor, Texas

Date: May 9, 1978

Interviewer: Kathleen Gilmore, Jerry Humphries

SUMMARY

(Although this interview was done prior to the May 9, 1979 interview, it is much less complete with regard to information concerning Hoxie Ranch and the Martin family background. Therefore, it should be used merely as a supplement to the May 9, 1979 interview.)

Family History

Mr. Martin was born at Yegua Knob, Texas. His father, also, was born there in the year 1861. Martin's grandfather originally came to the area from a town northwest of Chicago, Illinois. He was conscripted into the Confederate Army and fought against one of his brothers at the Battle of Vicksburg.

Farming Near Hoxie Ranch

At one time the Martins lived in a house southeast of the Old Friendship Cemetery near Hoxie Bridge. This house was just a small, four room house--two good big rooms, two shed rooms and a little bedroom on the porch. The house was typical of most houses in the area; termed "box houses," they could be built for little money. Most were specifically built for renters. "Back in those days, you could get the best lumber in the world for twenty dollars a thousand feet, twenty-five."

Martin states that the Allison family were "strong" on renting their land to Bohemians who came from the old country and couldn't speak English. This group rented property mostly on halves with the Allisons furnishing tools, teams and equipment necessary for planting and harvesting. The Bohemians would work the fields and gather the crops and harvest was split on a fifty-fifty basis.

The area was slow being put into cultivation with only an estimated fifty percent in cultivation around the turn of the century. The country was covered with many large mesquite trees and a great deal of work was required to clear these out.

Although many of the Bohemians rented on halves, the main method of sharecropping was thirds and fourths. A third of the feedcrop--corn, cane, any kind of grain, oats, wheat--went to the landowner and a fourth of the cotton went to him, also. The average farmer planted a lot more cotton than grain. The grain was planted primarily for stock feed. Stock included mules, horses, cows and a few hogs and chickens. The balance of the planting would be cotton because many farmers in the area were "... strong on cotton." This system went on for some fifty years until the New Deal "took over" and changed farming methods considerably, according to Martin.

Flood of 1921

Martin discussed the flood of '21 at length. He estimates at least 40 inches of rain fell in a 24 hour period, disputing the official amount on record of 26½ inches.

Impact of the Cam

Reminiscing about the Old Friendship community, Martin states,
"I tell you since we moved away from there that's the worst mess I ever
saw. That makes me feel bad, that was once one of the best communities
anybody ever lived in. Had a good strong church; it was good farming
country and a good bunch of people lived through there, that community."

Narrators: Mr. and Mrs. J. B. (Bun) Martin and daughter, Maureen,
Taylor, Texas

Date: May 9, 1979

Interviewer: Linda Lavender

SUMMARY

Family History

Mr. Martin and his wife lived and farmed for almost forty years near the Hoxie Ranch. Mr. Martin comes from a farming family and was born at Yegua Knob, Texas. Mrs. Martin is a great-granddaughter of Joseph Rubarth, who came to America from Germany and settled in the Williamson County area in 1836. She is a stepdaughter of R. C. (Crawford) Allison.

In addition to farming, Martin assessed taxes for a portion of Williamson County, including the former Hoxie Ranch for an eighteen year period between 1926 and 1944. In this capacity he visited every house in the area many times. He moved into Taylor in the Fall of 1944 when he entered the real estate business.

Mrs. Martin first visited the Hoxie Ranch as a child around the turn of the century. She accompanied her grandmother on a visit to a Mrs. Malley who lived near the ranch house. They did not go into the house but she recalls the gin and store that were on the site at that time. However, Mr. Martin does not recall a store being there when he and Mrs. Martin moved to the vicinity in the Fall of 1904. At that time, the house was occupied by the Lankford family; Bob Lankford was overseer of the ranch for the Hoxies.

Description of Hoxie House

Martin recalls the Hoxie house as being a large three-story with a big dance hall upstairs. He states the house actually had only ten or twelve rooms although it was generally thought by the area residents that it contained thirty-two rooms. There was a cupola on the top and the story was told that from this vantage point the man operating the ranch checked up on his men with field glasses.

Hoxie Ranch History

Frances Allison and Fred Welch bought the ranch in 1910 and immediately began selling it off in small tracts. Possibly 99% of these were sold on terms. "Bohemians bought lots of it and they just didn't have much money, they'd buy maybe a small tract, fifty acres on up to a hundred."

Even after the ranch was subdivided and the Hoxies were gone, the land still maintained the identity of being the Hoxie Ranch. As Mr. Martin states, "I'd say the people who've come in the last twenty-five or thirty years would even recognize it as being the Hoxie Ranch yet; I'm sure they would."

Tenant Farming

During the time the Martins farmed in the Hoxie Ranch area, tenant farming was the accepted way of life. There was no stigma attached to this mode of living as, "The greatest part of the farming that was done through this country was tenant farming." The farms were usually rented on thirds and fourths. A third of the grain and a fourth of the cotton went to the landlord and the remainder was kept by the

tenant. In this system the tenant supplied the tools and teams and the landlord provided the land and ". . . a house to live in, such as it was; some of them were pretty bad." Many of the houses--called box houses--were made out of twelve inch boxing planks. These were one wall thick with strips to cover the cracks on the outside. Later, these houses were papered on the inside or sealed with beaded ceiling or shiplap.

There was also a tenant system based on halves in which the tenant was supplied team and implements by the landlord and then split the crops fifty-fifty with him. Martin recalls no Black families who worked thirds and fourths, but thinks there may have been a few Blacks working halves for another tenant farmer.

As tax assessor, Martin assessed all the tenant farms in the Hoxie Ranch area. The tenants were assessed only on personal property and most tenants had nothing other than this. An average assessment would usually consist of stock--mules and horses, a few cows, sometimes hogs--and implements such as plow tools, machinery, wagons and buggies. No household goods were assessed.

General Farming and Depression Era

According to Martin, during World War I many farmers left the farm for higher wages with the federal government and this made it hard on the farmers who were still trying to farm. The compulsory school law also had an effect on farming in the area. Previous to this, the school term was fixed around planting and harvesting times. Six months is the longest school term that Martin remembers having attended in his boyhood.

The Depression had a definite impact on the area although, as Martin states ". . .didn't anybody starve to death out our way because the farmers that far back raised their own meat, mostly, and had chickens and eggs and milk and butter. . . . all you had to buy would be sugar and coffee and flour. But money was hard to get; there just wasn't any."

He feels the country would have snapped out of the depression if Roosevelt hadn't ". . .started the New Deal and began a give-away program that was very inconsistent. They started the farm program which worked out bad in the end; it had a tendency to move lots of renters off the farm." In the Hoxie area the government was paying farmers to cut down cotton production; so much an acre was paid to lay out a certain portion of the cotton acreage. Landlords found they could make just as much money by letting the renters go and collecting money for not farming cotton.

General Information

A feud between the Beard and Dyches families who lived in the ranch area was mentioned. Martin states, "They liked to have killed each other out," but he is not sure what they "got crossways about."

The Martins both feel sure a beef club met in the basement of the Hoxie house for many years but recall no specific details on this. Usually members of a beef club would meet once a week. Each member contributed a yearling to butcher and a number of families were involved.

The Martin family members voiced different opinions over the date

the Hoxie Ranch house burned but agreed the Sefciks, a Bohemian family, were living there at the time. Some of the original Hoxie furniture was still in the house when it burned, although much of it, by that time, had been lost. A series of tenant farmers had occupied the house since the 1910 subdivision of the property, and Martin feels that as different families moved out of the house, they would take a piece or two of the Hoxie furniture with them. After the house burned, the Sefciks continued to live near the site a few years longer in a "bungalow house" that was built there for them to occupy.

When asked what people in the area did for entertainment, Martin said there were a few dances. The Bohemians, Germans, and Swedes had their own way of life and, often, religion--the Bohemians being mostly Catholic. Weddings and birthdays in these ethnic groups were rather big affairs--". . .they'd really take a big pot and a little one."

Funerals were more informal. There was very seldom a church service, usually only a graveside service at the cemetery. People living in the community would dig the grave. Coffins, as they were called then, were typically narrow at the feet and widened out at the shoulders. "Twenty-five dollars was a big price for a simple coffin." Some coffins were homemade by family members.

I-40

Narrators: Mr. and Mrs. Rudolph C. Polacek, Hoxie, Texas

Date: May 21, 1979

Interviewer: Linda Lavender

SUMMARY

Family History

Mr. Polacek has lived almost all his life on the Hoxie Ranch.

Mrs. Polacek moved to the ranch in 1932.

Mrs. Polacek's maiden name was Provashik, a Czech name which means "roper" or someone who makes ropes. Her father was born in Vienna, Austria although his parents came from Moravia, Czechoslovakia. At age 24, Mrs. Polacek's father emigrated to America.

Mr. Polacek is also of Czech descent. His father was Cyril Polacek. Polacek's parents came from Moravia, Czechoslovakia and two brothers and two sisters were born there prior to the family's arrival in America. Eventually, the family had five sons and five daughters. However, one brother and two sisters died in childhood and are buried in Taylor.

The Polacek family bought land on the Hoxie Ranch from Mr. Allison. Polacek has early memories of the farming families around the Hoxie helping each other pick cotton, pulling the cotton bolls out, and using the husks in fires.

Hoxie Ranch General History

Polacek remembers the Malek family living in the large Hoxie house. Mrs. Polacek confirms that the Maleks were living in the big

house when she moved there in 1932. Polacek recalls Mr. Malek being a blacksmith with great strong forearms who had a blacksmith shop east of the Hoxie house. The couple feels the blacksmith shop was probably already on the site when Malek came to the Hoxie. Polacek remembers the Maleks had a large family with seven sons who worked the land and two daughters.

Mr. Polacek recalls a store at Hoxie for the "hands" and feels it was west of the house. He remembers the big barn that was partially underneath the ground and several other outbuildings including the blacksmith shop. He can recall cowboys still being on the ranch when he was a boy of four or five. For a time there were a great many sheep kept on the ranch and Polacek remembers an old Mexican man who stayed with the sheep day and night and even slept with them. He feels these sheep were on the ranch before the land was cleared and cultivated for growing crops.

Polacek seems to have the impression that the Hoxies and the Allisons had a fight over the ranch and "shot it out" and that after this the Hoxies moved someplace north. "When they (the Hoxies) left, well, they left all the furniture and everything in the house just like it was. Later on, when different people moved in there, as each family left they took some of the furniture with them. It was a shame how people stole stuff out of there."

Polacek spoke Czech as he was growing up and still speaks it but never learned to read and write in Czech. Mrs. Polacek, however, does read Czech which she learned at home and in the Catholic school she attended in Granger. Czech was taught through third grade but when

students reached the fourth grade they were no longer taught Czech or allowed to speak it even outside during recess. Mrs. Polacek grew up speaking both English and Czech and is disappointed her grandchildren do not speak the language although they can understand some of it. Mr. Polacek went to school at Waterloo and was taught strictly in English. His only formal training in Czech was once a week when he had schooling in church.

Polacek recalls that cotton picking was done by hand during his youth. The family would pick their own cotton and then hire out to pick cotton on nearby farms. They were paid by the day for this. At one time, the rate was a dollar a day. Polacek was also a member of a crew of fourteen men that baled hay for 75¢ a day plus room and board. This was in the late 1920's. The hay was put into large haystacks and then baled into square bales. There was too much waste to leave the hay standing in the tall stacks, so it was baled. This was also a more convenient way of feeding stock. As far as Polacek remembers, he never made more than \$2.00 a day plus room and board for this type of work. During the depression, it wasn't easy to get any type of work to bring in extra money.

Mr. Polacek attended dances in the Hoxie house while the Sefcik family was living there. The youths of the area would travel as much as ten miles to attend any dance held anywhere in the vicinity. These were often wedding dances. The boys came on horseback in groups and usually went to dances without "dates". They would meet girls, who came with their parents, at the dance. Polacek remarked that if the boys couldn't find enough girls to dance with, they just stood around. There was usually some "home brew"

available at the dances. Polacek states that his family made wine out of raisins and prunes.

The Polaceks were members of the beef club that met in the Hoxie basement. The club met once a week and was going on as long as Polacek can remember. There were about forty people in the club and each contributed a yearling. Each week a different part of the meat was given out so each family would have an equal share of the good and poor cuts. A written weekly record was kept of which parts were given to which families. The Germans had their own club at Hoxie and used a different method of dividing up the meat. The Polaceks thought the German system was unfair. Usually the men went to pick up the meat. After it was brought home, it was put in a jar and put down the well in a separate bucket to keep cool. Mrs. Polacek states that meat was eaten three times a day at that time. The club continued to meet through World War II, but at some point before 1947 was moved from Hoxie to Waterloo.

The Polaceks married in 1937 and lived on a small farm near the Hoxie house. They could see the house from their land and watched from their field as it burned in 1938. Mrs. Polacek regrets that she never saw the inside of the Hoxie house. They had never visited the Sefciks there before the fire, but did visit them afterward.

Mr. Polacek had polio around 1938 and it became very difficult for the couple to maintain the work on the tenant farm they lived in at the time. Polacek could do no plowing or cultivating due to his health and Mrs. Polacek had great difficulty managing these tasks with the mule team and heavy equipment. It was difficult to get help because all

the young boys were drafted. In 1941 the Polaceks bought their first tractor--a single row--and Mr. Polacek was able to drive it. However, Mrs. Polacek still had to assist with lifting up the venters at each turn. At this time they borrowed money with the help of Mrs. Polacek's parents and bought a 52 acre farm close to Granger. In July, 1947 a new double row tractor with a power lift was bought to make the work faster and after this Polacek was able to do all the plowing by himself. That same year the couple bought 64 acres on the Hoxie Ranch and lived there until their land was bought by the Corps of Engineers for the Granger Reservoir Project.

Folklore

Polacek is aware of numerous stories concerning gold buried on the Hoxie place. The Maleks and the Crupps and other people looked for it with metal detectors but nothing was ever found. Once a young boy named Simcek was hunting for gold at night with a metal detector and began to dig where the detector indicated metal. It turned out he was digging in a grave and, suddenly, a ghost appeared before him and hit him. This boy had dark hair and when the ghost hit him, his hair turned completely white.

Mr.. Polacek has seen the ghost that haunted the Hoxie Bridge. During the '21 flood, the bridge washed out and drifted about three hundred yards from the bridge site. Prisoners were brought from Huntsville to build the bridge back up. One of these prisoners made trouble and had his head shot off on the bridge by a guard. From this time the ghost haunted the new bridge when it had been a full moon on a Friday night. Horses would refuse to cross the bridge

when the ghost was there. Only certain people could see this ghost. Mr. Polacek saw him many times. The ghost would be sitting on the right side of the bridge as Polacek crossed back over it from the Hoxie house. It had no head and never spoke or moved. Polacek doesn't remember what year the ghost left the bridge, but it was after the priest prayed for the soul in church. The ghost was never seen again after that time.

I-46

Narrator: Mrs. G. C. (Hattie) Pope, Granger, Texas

Date: June 18, 1979

Interviewer: Roy D. Brooks

SUMMARY

Mrs. Pope, formerly Hattie Tegge, was born in 1889 in Macedonia, Texas. She is of Prussian descent and is the aunt of Clara Scarbrough, author of Land of Good Water.

Mrs. Pope related stories of her childhood as a student in the one-teacher school at Macedonia where they stressed "the three R's" and where she developed her love of poetry through weekly recitations. She later wrote a book of poems and went on to become a music teacher in the area.

Narrator: Mary D. Redwood, Victoria, Texas

Date: June 12, 1979

Interviewer: Roy D. Brooks

SUMMARY

Family History

Mrs. Redwood's father, Robert Oliver Lankford, was foreman of the Hoxie Ranch for approximately ten years. During this period, the Lankfords lived at Sunnyside.

Robert Oliver Lankford was born February 5, 1870 in Missouri. Mrs. Redwood is not sure when he came to Texas, but knows he was in San Marcos, Texas at age twelve; this was not too long after he first came to the state. He was the eldest of four children, three boys-- Robert, Lon and Ernest or "Ernie"-- and a girl--Belle. The parents died at early ages, not too long after their arrival in Texas. The sister, Belle, died when she was sixteen of tuberculosis or "galloping consumption" as it was called in those times.

Mrs. Redwood's mother was born Frances Haggard on February 28, 1872. She was always called "Fannie" or "Fan." She was from Tennessee and arrived in Texas with her family when she was twelve.

Mrs. Redwood believes her parents probably met in Kyle, Texas, because they both spoke of living in Kyle and going to dances there when they were young. Both are buried there. Mrs. Lankford died in 1944 and Mr. Lankford in 1951.

Robert O. Lankford and Frances Haggard Lankford had four children, all born in Kyle. A daughter, Ruby Troy, was born in 1890; a son,

William, known as Willie, was born in 1892; a daughter, Mary D., was born in 1894; and a son, John Walton, known as "Jack" or "J.W.," was born in 1898. The son, Willie, died as a young child.

The Lankfords moved to the Taylor area soon after Jack was born and worked for Mr. Rivers at Elm Grove. At some point, "when Jack was around two," the Lankfords moved to Taylor where Mr. Lankford had a livery stable. The older sister, Ruby, went to school in Taylor at this time. Mary D. believes she was around "four or five" when the family lived at Elm Grove and a little older in Taylor. She did not start school, however, until the family moved to Hoxie. This would make the approximate date 1901 or 1902.

Mrs. Redwood feels the family lived on the Hoxie Ranch about ten years. She believes the Hoxie family still owned the ranch when the Lankfords first came to Hoxie because Gilbert Hoxie and his brother, John Hoxie--". . .the kind of retarded one. . ." visited the ranch once or twice a year. She also states it was her impression that at some point before Mr. Allison and Mr. Welch bought the ranch they leased it from Gilbert Hoxie. There was one bedroom in the house designated for Mr. Allison to use when he came to the ranch. He came often and would stay almost a week at a time. He would always call and let the Lankfords know when he was coming out.

Mrs. Redwood is sure they left the Hoxie Ranch in 1914 before Mr. Allison was shot. She recalls still living in the house in 1912 when her sister, Ruby, married Mr. Bond. In 1914 a son, Carter, was born to Ruby. Mr. Lankford and Jack had left for Victoria, Texas shortly before this birth, but Mrs. Lankford and Mary D. stayed in

Taylor with Ruby until Carter was born and then joined Mr. Lankford and Jack in Victoria.

Jack later married Elva Buchel of Cuero, Texas. Mary D. worked in a bank for eleven years after moving to Victoria until her marriage to Jack Redwood.

Schooling at Hoxie

Mary D. and her brother, Jack, went to school in Waterloo when they lived on the Hoxie Ranch. She describes it as a two-room school with two stories, a small white building. It was four miles to the school from Hoxie and Mary D. and Jack rode to school on a half-Shetland pony named "Nellie." Mary D. and Jack lived farther away from school than any of the other children. Others who lived some distance away rode horses to school, but most children walked. Lunches were brought to school in pails. They always came home around 4:00 P.M.

Their sister, Ruby, never attended school at Waterloo. She would room and board during the week in Taylor and attend school there. On weekends she would travel the nine miles home to Taylor. She later went to business school in Waco and worked in the bank at Taylor before her marriage to Mr. Bond.

Mary D. attended seventh grade at St. Mary's Academy at Austin but was so homesick that she refused to leave home again after her first year there and so, never finished high school.

Hoxie House and Outbuildings

Mary D. Redwood has many memories of the Hoxie House and surrounding outbuildings. She was unsure on a few details but, for the most part,

seemed quite firm in her statements.

She describes the rooms on the first floor as huge with high ceilings. Despite the fireplaces, they were hard to heat in winter because they were so large. Mrs. Redwood noted some discrepancies between her memories of the first floor plan and Martha Freeman's (1976) floor plan of the house. These are as follows: Freeman's "parlor" was used as a master bedroom by Mr. and Mrs. Lankford, the room labeled "phone room" was the parlor, and the room labeled "all purpose room" was the phone room. She states that the stairway came between the phone room and the back of the hall. This first floor stairway which came up from the main hall was beautiful. It curved and had a pretty landing. Steps were wide and shallow. There was a "cut out place" in the curved landing where a flower vase or statue could sit. Behind the stairway was a large bookcase which ran almost the full width of the hall. At the side of the bookcase was a door which opened into a small hall leading back to the porch. So, there actually were two halls, a large one and a smaller one. A beautiful coat rack stood in the large hall. From the small hall, stairs led down into the basement and up a back way to the second floor bedrooms. There was a closet in this small hall and also a small galvanized stand surrounded by wet cheesecloth in which milk and butter were kept. There was an attractive lavatory in the kitchen which was arched over and set back into the wall.

The dining room contained a huge, long table. Meals were large family style, often with a variety of meats served. Some of the men working on the ranch took meals with the family in this dining room.

The phone room contained two cabinet type telephones. These were set close together on two adjoining walls in one corner of the room. Both phones could not be used at the same time because they were so close together. One was an old phone system and the other a new system. Both were used but were on different lines. The walls inside the phone room were plaster.

The basement was large but Mrs. Redwood does not feel it extended under the entire house. This space was divided into two large rooms. The basement was entered from the stairs coming from the small hall. The stairs went down into the first room which was mainly used for meat storage. The other room was used for keeping milk and cream and churning butter. Mrs. Lankford had a large range in this room and did canning and preserving there. She occasionally did washing in this room during inclement weather, but she had a separate wash house outside and usually washed and ironed there. Mrs. Redwood does not recall a door leading to the basement from the outside of the house.

Mary D. and Jack played under the house often. Children could stand up straight under the house, but adults could not straighten up under it. She believes this space was under the porch and east side of the house only. Access was under the front porch.

There were seven bedrooms on the second floor. "Mr. Allison's room" was in the front of the house on the east side. It was a large room with lovely furniture. The only other room on the east side was a large guest room off to the right at the top of the stairs. This room was big enough to easily hold two double beds and two dressers with lots of space between. Mrs. Redwood describes the guest room furniture

as "gorgeous." On the east side of the second floor were five other bedrooms and a large bathroom. The bathroom, situated directly above the kitchen, had running water with a commode and a white enamel bathtub on legs.

The third floor contained no furniture. Although Mrs. Redwood was told it had once been a ballroom, at the time the Lankfords were at Hoxie it contained pipes and fixtures for the acetylene lighting in the house at that time.

Stairs led from the second floor to the "ballroom" and on up to the cupola. The stairway from the second floor was much narrower than the first floor stairway. At one time the cupola was used as a bedroom by Mr. Lankford's brother, Lon.

Mrs. Redwood is sure the furnishings in the house were shipped in from somewhere as they were much too fancy to have been purchased in Taylor.

Outside, there was a cistern directly behind the back porch. Two small buildings for the acetylene lights were on the west side of the house. A road came around the west side of the house and went between the barn and these acetylene houses. The house was fenced all the way around with a large iron gate at the end of the driveway on the front side of the house. The acetylene houses were not inside the fenced yard, but on the other side of the road to the west of the house. The barn was inside the fenced yard. Also inside the yard was the long ranch style bunkhouse with porch which Freeman (1976) describes. Redwood does not remember a ranch store or commissary. The large barn set on the side of a hill had many stalls and some saddle rooms.

There were numerous horses kept there. Northeast of the house was a tank surrounded by willow trees where Mrs. Lankford would fish for perch.

Other Residents On or Near the Ranch

Mrs. Redwood feels that at the time her father was at Hoxie it was mainly used as a cattle ranch. There were some sheep on the ranch at this time, also. The sheepherder was Johnny Woods, a Scotchman the children called Uncle Johnny. He had a room in the long ranch house and took meals with the family. This gentleman had a quite colorful past. He left a wife and children and an estate in Scotland called "Pass Ford" or "Pat's Ford" to follow to America a woman with whom he had been having an affair. How he came to Hoxie and what happened to the woman, Mrs. Redwood did not know but Woods drank a lot and slept in gutters, eventually getting rheumatism. "Uncle Johnny" had a daughter, Agnes. When his wife died in Scotland, she made Agnes promise to find her father in America and bring him back home. Agnes succeeded in finding her father and secured work as a housekeeper for the Lankfords in order to be close to him. This was to no avail, as "Uncle Johnny" would not talk to her or have anything to do with her. Agnes, an educated, lovely lady who became a good friend to Mrs. Lankford, finally left to teach college. "Uncle Johnny" was still at Hoxie when the Lankfords left, but died not too long afterwards.

A couple, Mr. and Mrs. Dib Hollerman, lived in the ranch style bunkhouse. Mr. Hollerman worked for Lankford on the ranch. Will Bland was another ranch hand.

Lon Lankford, brother of Robert Lankford, lived and worked on the

ranch occasionally, but was not a permanent ranch hand.

Neighbors included Mr. and Mrs. Presley Smith who lived three or four miles away. Mrs. Smith did sewing for Mrs. Lankford and Mary D. was friendly with their daughter, Willie Emma Smith, whose married name later became Young.

Mr. Brookshire and Mr. Bland, neighboring landowners and stockmen, were mentioned. Mr. Brookshire had a ranch north of Hoxie close to Friendship and was a state senator or congressman. His daughter, Ruth Brookshire, was also a close friend of Mary D. Lankford. Mary D. once accompanied Ruth and her father to the State Fair of Texas. They took a train from Granger to journey to the event.

Narrator: Clara Scarbrough, Georgetown, Texas

Date: January 31, 1979

Interviewer: Roy B. Brooks

SUMMARY

This interview dealt much more with the historical background of both dam sites and not specifically with the Hoxie Ranch.

There is a brief narrative concerning the Allison Community and Friendship Community, locations, history, etc.

Mrs. Scarbrough read a few notes she had on the Allisons and made one mention of the Allison-Pool feud. There is one mention of the Dyches-Beard feud.

Towards the end of the interview, Scarbrough makes the statement that some of the people who were dispossessed by the Granger Reservoir Project really didn't want to leave their land. She elaborates on this further and gives some history of the reservoir projects.

I-56

Narrator: Linda Scarbrough, Austin, Texas

Date: October 7, 1979

Interviewer: Roy D. Brooks

SUMMARY

Family History

Linda Scarbrough, born in 1934, grew up in Taylor and Georgetown. Her parents ran the Taylor Times and her mother, Clara, authored the history of Williamson County, Land of Good Waters. Linda researched and wrote an article for the Audubon Society concerning the impact of the dams in Williamson County.

Origins of the Dam Project

As far back as the 1930's the farmers and ranchers of Williamson County had considered the need for a dam to protect them from flood damage as experienced in 1913 and 1921. Most felt a dam upstream from Georgetown would serve this purpose well. The actual location of the dam seems to have originated through the dealings of Wilson Fox, County Democratic Chairman, and his influence on then Congressman Homer Thornberry. Fox owned land near Laneport which, according to his father's will, could only be sold under condemnation proceedings. Evidently, Fox influenced Thornberry to push for a dam project in the Laneport area sometime during the 1940's. A plan was developed and presented to the citizens at a Taylor meeting.

Opposition and alternatives were immediate to the prospect of taking so much prime agricultural land out of commission for the enor-

mous dam project. Support was garnered for an alternative plan calling for numerous small reservoirs on the tributaries. This plan, suggested by the Soil Conservation Service, would cost a fraction of the larger project, yet be just as, or more, effective as flood control and conservation as well. It did lack the recreational potential of a large lake, and would have presented more difficulty for the larger towns to tap the water supply. This plan, however, would not have been under the jurisdiction of the Corps of Engineers, and thus the loss of a potentially large project for them. Another special interest group with a stake in the project was the Georgetown business community which strongly desired a dam near Georgetown for commercial growth. Everyone seemed in agreement that Laneport was an inappropriate site for a lake, that it was too shallow and wouldn't provide flood control for Williamson County. Opposition was strong enough for Thornberry to reconsider his support and plans bogged down for several years until he retired and Jake Pickle was elected in his stead.

Development of North Fork Project

Jake Pickle seemed to favor a compromise plan of two dams, one upstream, one downstream. Later, perhaps in the early 1960's, the Corps presented a three-dam project which effectively split political opposition. The North Fork Dam satisfied the Georgetown business interests and seemed to address the problem of flood control for East Williamson County. Ms. Scarbrough believes there wasn't further opposition to the North Fork Dam because the rural people of the area may have desired a more diverse economic base. Williamson County had

I-58

been a stable, predominantly agricultural area for many years, but the assumption was that growth and diversity were necessary things. The dangers of development couldn't be readily apparent to them, i.e. how easily the quality of life is changed and lost.

Recreation on the River

Ms. Scarbrough recalled several beautifully scenic spots on the North Fork. These places, such as Crockett Gardens and the crossings were unspoiled, undeveloped, natural areas accessible to all. They possessed unique features, springs, cliffs, and plant life of great beauty. As it was then, the river was utilized by hundreds of people for swimming, picnicking, fishing, hiking, and the "finest white water canoeing in Texas" during the spring. "It was a lovely thing."

Narrator: Mr. Theo Schroeder

Rewritten from brief notes

Date: May, 1979

Interviewer: Linda Lavender

SUMMARY

Mr. Schroeder, a gentleman of eighty-nine years, seemed spry and able to recall many events of the past years. His reminiscences of the Hoxie house site were rather limited, but he was able to provide general information on the area and some specific information on farming.

Mr. Schroeder was born at Dessau, near Austin, and moved to the Hoxie area when he was nine years old (1899). His father purchased the land on which he now lives from a Mr. Race in 1913. Mr. Schroeder went to school at Turkey Creek and had always attended church at the Prince of Peace Lutheran Church at Wuthrich Hill. His wife was a daughter of C. G. Wuthrich, an associate of John R. Hoxie who purchased a part of the Hoxie land in 1910. He noted the two Wuthrich sisters who never married still live on the next farm (Scarborough, Land of Good Water, p. 466).

As a boy, Mr. Schroeder recalled that some of the Hoxie cowboys caught wolves and kept them in pens near the house. They would "play with them and get them mad." He thought the Hoxie cowboys lived in the "Big House," which had thirty-two rooms and all heavy oak furniture. Hoxie was reputed to have had 10,000 head of cattle. Mr. Schroeder thought the house burned at 12:00 noon; and he also mentioned the large

cellar, saying that liquor was kept there.

During most of Mr. Schroeder's farming experience (and his information seems typical of the neighborhood) corn and cotton were the major crops. Small amounts of maize were grown, primarily as chicken feed; however, in about 1950 maize found new markets. An advantage of growing maize over corn was that maize could be plowed at regular intervals to keep the field clean and weeds down, while the height of corn prevented cultivation past a certain point.

Average farms were small during the early part of the twentieth century, a common size being between 50 to 100 acres. One hundred fifty acres was a large farm, and 300 acres constituted a ranch. The size of most farms was determined by the animal power and human effort needed to keep the land under cultivation in the pre-tractor era. Schroeder claims to have worked with mules until the early 1960's ("15-16 years ago"). He thought the biggest and best mules came from Missouri, although he bought his from a local mule barn. Favoring the tractor, Mr. Schroeder recalled the disadvantages of mules, which might have to be fed when the farmer was in a hurry to finish his task. He also noted the haste of some farmers to catch up with their work after a long wet spell could overtake the mules, who would die in the plow harness. Good mules were expensive, selling for \$500-\$600 each.

Mr. Schroeder recounted some of his experiences. During the 1921 flood, water was so high that pigs swam into the pecan trees and got hung up there. "Fat hogs hardly ever drown," he said, noting the natural bouyance and swimming ability of these animals.

In 1925 a severe drought caused a crop failure. Mr. Schroeder

wrote to Washington to ask for assistance, as he had to borrow \$100.00 to feed his mules. A year later he received a check for \$106.00, the \$6.00 being interest on the dilatory payment. Mr. Schroeder thought he was the only one from his neighborhood who had requested help (and thought he was pretty smart for doing so).

During the depression, this family owned their own farm, lived on garden produce and ground their own corn. His daughter said they ate cornmeal mush until they were quite tired of it. They also kept chickens.

For many years the Schroeders sold Plymouth Rock chickens and their eggs. These birds weighing 5-6 lbs. were good both as layers and fryers. He lost his last chickens 2 to 3 years ago to varmits, which have proliferated now since people hunt less often. The best year for cotton, which sold at 35¢ a pound, was 1936.

Mr. Schroeder paid \$7.00 a month to send his daughters to high school in Taylor. He was the only one from his area to send his girls past the eighth grade. They had attended Waterloo School for the primary grades.

I-62

Narrators: Agnes Allison Whatley, Langdon Richter, Taylor, Texas

Rewritten from brief notes

Date: May 17, 1979

Interviewer: Roy B. Brooks, Kathleen Gilmore

SUMMARY

Mrs. Whatley, a member of the Allison family, disclosed a great deal of information about that family. She talked mainly about her family history and her girlhood home, the "Flag Springs" Hoxie house. Very little was mentioned about Sunnyside or the Hoxie Ranch. Mrs. Whatley did state that the Allison family never referred to the Hoxie house as "Sunnyside."

Discussion touched briefly on the '21 flood and Mrs. Whatley recalled it washed out several bridges including the Hoxie Bridge which was replaced with a new structure different in appearance.

During the conversation, Langdon Richter, also present, mentioned the oil boom which briefly flourished in the area. The dates on this are unclear but it seems to have been pre-1914. Many promoters came into town to purchase oil leases during this period.

Narrator: C. C. Allison and his mother Danna Allison*

Date: May 22, 1979

Interviewer: Roy Brooks

SUMMARY

The Allison's own several articles which were in the Hoxie ranch house: candelabra, lamp, a large serving bowl decorated with purple flowers, a dresser which originally went with a bedroom suite, a chair, a leather backed probably Master's Host chair of a set of 12 dining chairs. All the dressers had keys that locked all the drawers. They also have some crystal and a tablecloth and 12 napkins which may have been used at the ranch.

In their possession is the gun which Francis Allison wore when he was working with the Mexicans on the Hoxie Ranch.

They commented that the Hoxie ranch was the entertainment center of the South where people used to come for barbecues and to go boating.

*This tape is of poor quality, and much could not be transcribed

I-64

Narrator: Arthur Barton, Susie Prewitt*

Date: May 22, 1979

Interviewer: Roy Brooks

SUMMARY

Susie Bond Prewitt's brother married Ruby Lankford. Her family was never close to any of the people who lived at Hoxie except the Lankfords. After the Lankfords left the ranch Barton commented that there were some "bad parties" out there. There was a lot of talk in town after the Hoxie house burned. Some people said someone burned it, but the truth of this is not known, according to Barton.

Mrs. Prewitt, whose sister was married to Mr. Barton, went to school with the Allisons.

*This tape is of poor quality and much could not be transcribed.

Only those items concerning the Hoxie Ranch are noted in this summary.

Narrator: Mrs. D. X. Bible

Date: June 14, 1979

Interviewer: Roy Brooks

SUMMARY

Mrs. Bible's, born in 1903, maiden name was Gilstrop. Her mother was Mary Dorothy Ellen (Molly) Robbins, who was born on February 15, 1875. Molly's parents were John Gourd Robbins and Cassandra Keel Robbins. After Cassandra's death Molly was raised by her father's brother Jacob Darel Robbins and her mother's sister Sarah Ellen Keel Robbins..

The original house they lived in near Willis Creek was moved recently, but the site will be under the lake and the upper part of the acreage will be in the overflow. The house are had a rock cistern (41WM416); the house had a red concrete sideporch. East of the house was a line of the Pedro Zarza League.

Mrs. Bible's father Clifford Gilstrop was a cowboy. He was riding cattle for Hoxie Ranch and lived just a few miles away. After he married Molly in 1891 he quit cowboying and went into business. At various times he had a livery stable, a barber shop, a meat market and others.

*This tape is of poor quality and much could not be transcribed.

I-66

Narrator: Langdon Richter*

Date: May 22, 1979

Interviewer: Roy Brooks

SUMMARY

Richter was born in Taylor, March 13, 1906. He went to work in the First National Bank in 1924. His brother, Albert, worked in the Taylor National Bank. These two banks merged in 1931. Richter became interested in the Hoxie Ranch when he was working at the bank in 1924. Francis O. Welch was president of the bank, at this time, and Ferguson Allison was running the ranch. At some point Allison had bought out "young" Hoxie, that left Allison with two-thirds (of the ranch?).

The last time Richter was in the ranch house was in 1937. Ed Sefak and a daughter, Ruth or Lilly Kotrola, were living there. He saw a building which he says was the old commissary. It was a log building and used for hay storage. He spoke about a black book, like a journal, which he knows of that a foreman, Wagner kept, but he has been unable to track it down.

*This tape is of poor quality and much could not be transcribed. Only those items concerning the Hoxie Ranch are noted in this summary.

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8