HUMANS AND ENVIRONMENT IN NEW MEXICO: THE LAST 1000 YEARS

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CHACO CANYON, AD 900 – 1150
CHACO CANYON, AD 900 – 1150

Ainsworth et al. in press
THE MIDDLE RIO GRANDE VALLEY, AD 1300 – 1425
THE MIDDLE RIO GRANDE VALLEY, AD 1300 – 1540

After Clark 1980, 2000; Jones and Hornbake in prep. Young 1980

Photo credit: Wikimedia Commons
INITIAL SPANISH COLONIZATION (A.D. 1598-1680)
INITIAL SPANISH COLONIZATION (A.D. 1598-1680)

Table 2. Artiodactyl taxa in Middle Rio Grande Valley (MRGV) sites. Assemblages are arranged from left to right in chronological order.

<table>
<thead>
<tr>
<th></th>
<th>Pottery Mound&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Chamisal (prehistoric component)&lt;sup&gt;b&lt;/sup&gt;</th>
<th>Tijeras&lt;sup&gt;c&lt;/sup&gt;</th>
<th>Qualacu&lt;sup&gt;d&lt;/sup&gt;</th>
<th>Pargas&lt;sup&gt;e&lt;/sup&gt;</th>
<th>Chamisal (early historic component)&lt;sup&gt;b&lt;/sup&gt;</th>
<th>Isleta Mission (17th century)&lt;sup&gt;b&lt;/sup&gt;</th>
<th>Paraje&lt;sup&gt;f&lt;/sup&gt;</th>
<th>Isleta Mission (19th/20th century)&lt;sup&gt;b&lt;/sup&gt;</th>
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</thead>
<tbody>
<tr>
<td><strong>Native artiodactyls</strong></td>
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<tr>
<td><em>Antilocapra americana</em> (Pronghorn)</td>
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<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<td><em>Bison bison</em> (Bison)</td>
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<td><em>Cervus elaphus</em> (Elk)</td>
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<td>pos</td>
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<tr>
<td><em>Odocoileus sp.</em> (Deer)</td>
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<tr>
<td><strong>Introduced artiodactyls</strong></td>
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<tr>
<td><em>Bos taurus</em> (Domestic cattle)</td>
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<tr>
<td><em>Capra/Ovis</em> (Domestic goat or sheep)</td>
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<tr>
<td><em>Sus scrofa</em> (Domestic pig)</td>
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<td>x</td>
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</table>

Data from:
<sup>a</sup>Clark (2007).
<sup>b</sup>Jones, unpublished data.
<sup>c</sup>Young (1980).
<sup>d</sup>James (1987b).
<sup>e</sup>James (1987a).
<sup>f</sup>Boyd (1986).
THE AMERICANS AND THE RAILROAD, A.D. 1846 - 1912

Photo credit: William Walton, Courtesy Palace of the Governors Photo Archives (NMHM/DCA), 088716.
Method: $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ from archaeological fishes

![Graph showing the relationship between $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ for different plants.]

- Shrubs (Sagebrush, rabbitbrush, creosote): C$_3$ pathway
- New Mexican native grasses: C$_4$ pathway
Significant change in both $\delta^{13}C$ and $\delta^{15}N$ between the 17th and 18th centuries ("Isleta") and the 20th/early 21st centuries

Figure credit: Jonathan Dombrosky
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THANKS TO...

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