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## Appendix 1

### Calibrated and Modeled Radiocarbon Dates from Ejutla

Gary M. Feinman, Linda M. Nicholas, and Jennifer Birch

As we implemented our excavations at Ejutla, the Project Directors aimed to collect carbon samples from relevant contexts that could be used in conjunction with the ceramic collections to date the domestic architecture, the use of the pit features, and the specialized activities that were evidenced in our collections. We also wanted to document the occupational history of the excavated structure, and any activities that preceded its construction. The Ejutla carbon samples were collected opportunistically from a range of contexts where we judged there were sufficient quantities of charcoal to obtain a <sup>14</sup>C date. Of course, dating protocols and technologies in the early 1990s were not equivalent to the present. The collected carbon samples were not randomly placed and are heavily drawn from ashy deposits in the pit kilns and the dense midden that were adjacent to the structure. We collected scattered charcoal from below the house floor, but deposits associated with the house floor contained very little charcoal. Because of recent post-use disturbances, the uppermost levels of the prehispanic house were badly destroyed and not intact.

We obtained AMS results for 55 samples of charcoal (only one was a charred bean—UGAMS-59742) from Ejutla, 15 submitted to the University of Arizona Radiocarbon Facility in the 1990s and early 2000s and 40 submitted to the Center for Applied Isotope Studies at the University of Georgia (UGAMS) in 2022 and 2023. The samples run by the Georgia facility are part of a collaborative project to assemble a large database of carbon dates from across the Valley of Oaxaca for the entire prehispanic sequence (Kowalewski et al. n.d.). All samples in the database were calibrated by Jennifer Birch, using the most recent IntCal20 calibration (Reimer et al. 2020), and then Bayesian statistical modeling was applied to all samples in the database in an effort to examine the timing of transitional episodes at many different sites across the valley (e.g., Griffiths et al. 2023). The recalibrated dates and the corresponding modeled dates for the Ejutla carbon samples are listed in Table A1.1.

Bayesian modeling is a statistical approach to the interpretation of radiocarbon dates (Bayliss 2009; Buck

**Table A1.1. Calibrated and modeled radiocarbon dates from the Ejutla excavations.**

Lab number	Years BP	1 sigma	Δ13C	Excavation unit	Context	Unmodeled 68.3	Unmodeled 95.4	Modeled 68.3	Modeled 95.4
UGAMS-59732	1250	20	-25.5	20N24E	midden above pit kiln 4	688–820 CE	677–873 CE	700–749 CE	683–798 CE
UGAMS-59741	1190	20	-26.01	16N24E	midden above pit kiln 4	780–883 CE	773–890 CE	777–794 CE	714–815 CE
Arizona-AA21551	1235	50		18n24e	midden above pit kiln 4	689–877 CE	665–940 CE	692–785 CE	674–800 CE
UGAMS-59727	1180	20	-25.2	20N24E	midden above pit kiln 4	777–887 CE	772–944 CE	778–792 CE	772–806 CE
UGAMS-59728	1260	20	-27.06	20N24E	midden above pit kiln 4	685–744 CE	675–823 CE	691–750 CE	679–785 CE
UGAMS-59729	1100	20	-24.43	18N24E	midden above pit kiln 4	898–991 CE	892–994 CE	–	–
UGAMS-59733	1230	25	-26.33	20N24E	midden above pit kiln 4	707–874 CE	686–883 CE	706–796 CE	687–805 CE
UGAMS-59724	1050	20	-25.03	20N24E	midden above pit kiln 4	994–1021 CE	904–1029 CE	–	–
UGAMS-59725	1260	20	-26.39	22N22E	midden above pit kiln 4	685–744 CE	675–823 CE	691–750 CE	679–785 CE
UGAMS-59730	1180	20	-26.19	18N24E	midden above pit kiln 4	777–887 CE	772–944 CE	778–792 CE	771–807 CE
UGAMS-59736	1280	20	-24.34	20n26e	midden above pit kiln 4	680–770 CE	671–774 CE	685–774 CE	675–782 CE

(Continued)