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Diachronic and Synchronic Analyses of Obsidian Procurement in the Mixteca Alta, Oaxaca



Research Year: 2003

Culture: Mixtec

Chronology: Pre-Classic

Location: Nochixtlán Valley, Oaxaca, México

Site: Etlatongo

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Abstract

In order to determine the nature and extent of interregional interaction during the Early Formative period at Etlatongo, in the Nochixtlán Valley of Oaxaca, México, 207 obsidian samples have been sourced to determine the origin of each fragment. The results document that the ancient villagers utilized obsidian from nine sources, with the majority (65%) coming from the Parédón source, in Puebla. Differences in types of obsidian and frequencies between different contexts at Etlatongo show selective participation in various networks by the Early Formative villagers. These data contrast with those from Early Formative sites in the Nochixtlán Valley and the Cuicatlán Cañada, where the majority of obsidian comes from Guadalupe Victoria, Puebla. In order to understand changes through time, 106 Late Formative obsidian fragments from Etlatongo were sourced. Seven sources were utilized. While the Paredón source still maintained great importance, other sources comprised a larger portion of the sample than earlier, while several new sources were exploited. Samples from the Valley of Oaxaca and the Isthmus of Tehuantepec provide comparative data on Late Formative obsidian utilization. These data are crucial for understanding interaction and social complexity in the Mixteca Alta and beyond.

Resumen

Con el fin de determinar la naturaleza y extensión de la interacción regional durante el Formativo Temprano en Etlatongo, en el Valle de Nochixtlán de Oaxaca, México, se han utilizado 207 muestras de obsidiana como fuente para determinar el origen de cada fragmento. Los resultados evidencian que los antiguos habitantes de la localidad utilizaban obsidiana de nueve fuentes diferentes, de las cuales la mayoría (65%) proviene de la fuente de Paredón, en Puebla. Las diferencias entre los tipos de obsidiana y las frecuencias entre los diferentes contextos de Etlatongo muestran la diferente participación de varias redes de producción por parte de los habitantes del Formativo Temprano. Esta información contrasta con aquella de los sitios del Valle de Nochixtlán y de la Cañada de Cuicatlán del Formativo Temprano, donde la mayor parte de la obsidiana provenía de Guadalupe Victoria, Puebla. A fin de entender los cambios ocurridos a través del tiempo, se utilizaron 106 fragmentos de obsidiana de Etlatongo como fuente. Se usaron siete fuentes diferentes. Mientras que el sitio de Paredón aún mantenían su importancia como fuente, otras zonas comprendieron una porción más grande de muestras que antes, en tanto que otras nuevas fuentes pasaron a ser explotadas. Los datos se comparan con muestras del Valle de Oaxaca y del Istmo de Tehuantepec. Esta información es crucial para poder entender la interacción y la complejidad social de la Mixteca Alta y más allá.

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Introduction

The Mixtec people achieved a remarkable cultural florescence in the half millennium prior to the Spanish invasion. Because so little is known of prior Mixtec cultural developments, this area often appears isolated from processes throughout Mesoamerica. Given the abundant evidence for interaction throughout the modern state of Oaxaca and Central México in the final centuries of prehispanic Mixtec culture, interregional interaction during the Formative period (approximately 1500 B.C.–A.D. 100) largely remains unsupported by firm data – such as those generated by compositional analysis of obsidian, a volcanic glass crucial in ancient Mesoamerica.

I directed a project to explore intra- and interregional interaction in two phases established by the Mixteca Alta ceramic sequence within the Formative period: (1) the Cruz B phase (1150–850 B.C.), a time when interaction among early villages intensifies throughout Mesoamerica and (2) the Yucuita phase (500–200 B.C.), encompassing the initial portion of the Late Formative, when the first urban settlements appear in both the Mixteca Alta and the adjacent Valley of Oaxaca. The goal of the project was to explore the participation of Formative period Mixtecs in larger Mesoamerican interaction and exchange networks through compositional analysis of obsidian. While the project focused on the Nochixtlán Valley site of Etlatongo, samples were analyzed from sites beyond this village to understand in which networks these villagers participated. With the aid of a grant from FAMSI, the project sourced 365 obsidian samples and provides new data to examine how this raw material moved throughout a region where it does not naturally occur. By analyzing samples from two different time periods, it is possible to determine diachronic changes in procurement patterns within the Mixteca Alta.

Background: The Mixteca Alta and Etlatongo

The Mixteca Alta lies in the southern highlands of Oaxaca, México (see [Figure 1](#)). Located at 2,000 meters above sea level, the Nochixtlán Valley is the largest valley in this mountainous region. The Mixteca Alta served as the crucible for the development of the rich and varied Mixtec culture, best known for the system of competitive city-states referred to as cacicazgos at the time of the Conquest. Early developments in Mixtec culture – particularly during the Formative period – remain poorly understood. Scholars often interpret this dearth of knowledge as a sign that the Mixtec Alta remained uninvolved in many of the cultural developments occurring across Mesoamerica.

Indeed, scholars often contrast the Valley of Oaxaca and the Mixteca Alta, referring to the latter as "peripheral" to larger pan-Mesoamerican developments (Marcus 1989).



Figure 1. Important Archaeological Sites and Obsidian Sources in Formative Mesoamerica.

In order to explore early social complexity and interregional interaction in the Nochixtlán Valley, I conducted fieldwork in 1992 at the site of Etlatongo, located north of the confluence of two rivers, approximately 10 km south of Yucuita. Previously known only from several test units (Zárate Morán 1987), I directed surveying, mapping, and much more intensive excavations at Etlatongo. I have argued that the results of the excavation indicate the Mixtecs' role in Formative prehistory must undergo substantial revision (Blomster 1998, 2004). Analysis of obsidian provides one line of evidence on ancient interaction at Etlatongo.

Instrumental Neutron Activation Analysis of Obsidian

Obsidian fragments were excavated from culturally meaningful contexts (e.g., storage pits, middens, etc.) at Etlatongo. Obsidian, the sharp edge of which made it crucial to the daily lives of ancient Mesoamericans, has proven extremely useful to archaeologists examining ancient exchange because archaeological fragments can be linked to the

actual obsidian sources throughout Mesoamerica. Obsidian sources quarried by Mesoamericans have been identified throughout México and Guatemala in two major zones of volcanism (see [Figure 1](#)). An ongoing project directed by Michael Glascock at the University of Missouri Research Reactor (MURR) has been to characterize these sources through Instrumental Neutron Activation Analysis (INAA); chemical "fingerprints" have been developed for approximately forty obsidian sources throughout Mesoamerica (Glascock *et al.* 1994:29). Because the chemical variability is greater between obsidian sources than within a single source, obsidian fragments retrieved from archaeological excavations can be matched to specific sources (see [Figure 2](#)).



Figure 2. Obsidian from different sources found in EA-2 at Etlatongo.

In order to explore Cruz B interaction at Etlatongo, I initially conducted a trial project that employed INAA on a sample of 45 obsidian artifacts (Blomster and Glascock 2002). Large pieces were selected from three Cruz B contexts at Etlatongo. All obsidian fragments from these three contexts were successfully tied to a surprisingly high number of sources – seven (see [Appendix 1](#)). Of direct relevance to the nature of the relationship between the Nochixtlán Valley and the Valley of Oaxaca, the frequencies of the sources utilized at Etlatongo differ substantially from contemporaneous Valley of Oaxaca villages, where the majority of obsidian came from Otumba, Guadalupe Victoria, and West México. At Etlatongo, Paredón, Puebla (in the Basin of México),

provided the majority of samples. The data also showed synchronic variation in the obsidian sources utilized in the three contexts at Etlatongo.

Intra- and Interregional Interaction: Diachronic and Synchronic Data

As stimulating as the trial project data were, the interpretive power of this small sample without comparable material from elsewhere in the Mixteca Alta remained limited. Thus, with the assistance of FAMSI, a much larger sample was sourced through INAA from both the Cruz B and Yucuita phases at Etlatongo. In addition to more samples from Etlatongo, I collaborated in obtaining samples from sites excavated by other archaeologists throughout Oaxaca state. The sample analyzed by MURR now includes 410 obsidian fragments; an additional sample (ET195; see [Appendix 1](#)) was revealed to be chert, not obsidian, and will not be further discussed.

The Larger Cruz B sample from Etlatongo

Combined with the initial 45 samples, a total of 207 Cruz B obsidian fragments have been sourced by INAA. Rather than biasing the sample by selecting only certain obsidian fragments from each context, all obsidian fragments from discrete archaeological features and strata were analyzed in order to understand different consumption choices at Etlatongo. The following contexts are employed:

The majority of Etlatongo obsidian samples (n = 128) derive from the earliest occupations explored during the 1992 project. A series of features and surfaces, representing several occupations, are here grouped under the term EA-2 (Excavation Area 2), a 5 × 7 meter unit that exposed a series of houses that, based on both architectural and ceramic features, I have interpreted as higher status.

Unit 22, located along the eastern edge of the southern portion of the site, exposed a Cruz B surface with an associated bell-shaped pit (Feature 3) – the largest known from Etlatongo. All 37 obsidian fragments from Feature 3 were analyzed through INAA. The amount of exotic goods and ritual paraphernalia also suggest the residents were of higher status.

Unit 1, placed on the southern-most mound at Etlatongo, exposed a series of strata that elevated several surfaces in what I have identified as a possible public space at Etlatongo. A total of 28 obsidian fragments came from the earliest modifications of this space and were analyzed by INAA.

Units 15 and 16 exposed a series of Cruz B occupations. Those of Unit 15 appear to be of average status, while those revealed by Unit 16 are best categorized as higher status. The few obsidian fragments that came from these contemporaneous deposits were analyzed with INAA: 8 from Unit 15, 6 from Unit 16.

INAA of the Cruz B sample provides additional insight into consumption and economics at Etlatongo, as well as adding two obsidian sources that were not previously identified at Etlatongo: Cruz Negra, Michoacán and Tulancingo, Hidalgo. The data are summarized in [Table 1](#), shown below, while compositional data are detailed in Appendix 1.

Obsidian Source	Context at Etlatongo (see text for details about contexts)					Total n = 207
	EA-2 n = 128	Unit 22, Feature 3 n = 37	Unit 1 n = 28	Unit 15 n = 8	Unit 16 n = 6	
Paredón, Puebla	65%	73%	57%	75%	33%	65% (n = 135)
Otumba, México	24%	11%	7%	0%	17%	18% (n = 38)
Guadalupe Victoria, Puebla	8%	8%	0%	25%	17%	8% (n = 16)
Ucareo, Michoacán	2%	0%	25%	0%	33%	5% (n = 11)
Pico de Orizaba, Veracruz	0%	5%	0%	0%	0%	1% (n = 2)
El Chayal, Guatemala	0%	0%	7%	0%	0%	1% (n = 2)
Tulancingo, Hidalgo	0%	3%	0%	0%	0%	0.5% (n = 1)
Ixtepeque, Guatemala	0%	0%	4%	0%	0%	0.5% (n = 1)
Cruz Negra, Michoacán	1%	0%	0%	0%	0%	0.5% (n = 1)

The results of the INAA for the Cruz B sample are quite provocative. Additional obsidian sources are present at Etlatongo that have not been documented at contemporaneous Valley of Oaxaca sites, although those data were gathered nearly 30 years ago and may not be fully comparable (Flannery 1976; Pires-Ferreira 1975). Clearly, ancient villagers at Etlatongo participated in a variety of exchange networks. While most households relied on obsidian from Paredón, which constitutes 65% of the total Cruz B sample, each higher status household had access to at least one source that the others did not. It is noteworthy that the one average household sampled, Unit 15, had access to only two sources – Paredón and Guadalupe Victoria. Even the household represented by Unit 16, with fewer obsidian fragments recovered than Unit 15, had four sources utilized. The other higher status households each had five sources. While the sample from Unit 22, Feature 3 had the only samples from the Pico de Orizaba and Tulancingo sources, the households represented by EA-2 accessed West Mexican sources. In addition to Ucareo, Michoacán, the only archaeological example to this date at MURR of an obsidian fragment from Cruz Negra, Michoacán came from EA-2 (Glascock 2004, personal communication). Additional sources are represented in the strata associated with a possible public structure at Unit 1, where the only fragments from Guatemalan sources – El Chayal and Ixtepeque – appear. No fragments come from Guadalupe Victoria in these Unit 1 deposits. Thus, the results show networks of

individual access to exotic sources beyond those commonly utilized by nearly every household (Paredón and Otumba), where choices reflect negotiations of access both within Etlatongo and in relations with other Early Formative communities.

Additional Early Formative sources from the Mixteca Alta and Adjacent Regions

A problem with the original pilot study is the lack of context for the results in the Mixteca Alta. I focused on samples from the Nochixtlán Valley as well as regions that may have played a crucial role in trade routes. Obsidian from Cruz A and Cruz B occupations at the Nochixtlán Valley site of Yucuita were sourced. While Cruz B samples were especially desired, only three could be located. Fortunately, an additional 42 samples from Cruz A occupations at Yucuita were located for analysis. In order to understand movement of obsidian into the Nochixtlán Valley, an additional 21 samples were sourced from Rancho Dolores Ortíz, a Cruz A village located approximately 200 km east of Yucuita in the Cuicatlán Cañada. While Yucuita is 25 km closer to a major Formative obsidian source than is Rancho Dolores Ortíz, the Cañada site contained triple the amount of obsidian. It has been hypothesized that Rancho Dolores Ortíz was a central node in this exchange network (Winter 1984). Included with this sample was one additional obsidian fragment from the Mixe area of Oaxaca; the sample was collected from the surface, so it is not possible to determine from which phase of the Formative it pertains. While it was hoped that contemporaneous obsidian samples from the Valley of Oaxaca could be obtained, it appears most of the obsidian from excavations conducted 30 years ago have been misplaced or are simply unavailable.

While more samples from Cruz B deposits in the Mixteca Alta and Cuicatlán Cañada would be desirable, the data clearly show the importance of the Guadalupe Victoria obsidian source in the Mixteca Alta. All Cruz B obsidian from Yucuita is from that source, as are most of the Cruz B samples. The only other obsidian source represented at Yucuita is Pico de Orizaba – a source geographically close to Guadalupe Victoria (see [Figure 1](#)).

The same pattern prevails at Rancho Dolores Ortíz (combined in [Table 2](#) with one obsidian fragment from the Cruz A Mixe site of Zacatepec), with 90% of the obsidian from Guadalupe Victoria. One surprise is the presence at Rancho Dolores Ortíz of Guatemalan obsidian – from El Chayal. This suggests the strategic location of Rancho Dolores Ortíz not only permitted the site to funnel obsidian from the Central Highlands and Veracruz into Oaxaca, but also connected it to exchange networks that trafficked in Guatemalan obsidian. The virtual absence of the major Cruz B obsidian source at Etlatongo – Paredón – at Yucuita and Rancho Dolores Ortíz is significant, and illustrates the dramatic transformations in interregional interaction and social complexity emblematic of the Cruz B phase.

Obsidian Source	Cruz A and Cruz B Villages		
	Etlatongo Cruz B n = 207	Yucuita Cruz A & B n = 45	Rancho Dolores Ortíz; Mixe; Cruz A n = 21
Paredón, Puebla	65%	2%	0%
Otumba, México	24%	0%	0%
Guadalupe Victoria, Puebla	8%	88%	90%
Ucareo, Michoacán	2%	0%	0%
Pico de Orizaba, Veracruz	0%	17%	5%
El Chayal, Guatemala	0%	0%	5%
Tulancingo, Hidalgo	0%	0%	0%
Ixtepeque, Guatemala	0%	0%	0%
Cruz Negra, Michoacán	1%	0%	0%

Diachronic Change

The initial sample from Etlatongo only focused on Cruz B contexts; I also wanted to understand changes in obsidian procurement through time. The later Yucuita phase represents a time of significant changes in socio-political complexity (Blomster 2004). Obsidian analysis can assess the impact of new urban centers on exchange and procurement economies. I selected all (n = 93) obsidian fragments from Yucuita phase deposits associated with houses in Excavation Area 1 (EA-1) and from a storage pit in Unit 6 (n = 13). In order to place these in a larger context, Late Formative obsidian was sourced from Monte Albán (n = 15), the center of the Zapotec state in the Valley of Oaxaca, and Carrizal (n = 16), located on the Isthmus of Tehuantepec. These data are summarized in [Table 3](#).

The Yucuita phase data show changes in economic patterns during the Late Formative period at Etlatongo. The Paredón source, while still the most important, no longer constitutes over half of all obsidian at Etlatongo. The decreased utilization of the Paredón source, however, is not balanced by increased number of sources utilized; the total number of obsidian sources is one less, eight, than during Cruz B. The sources, however, change; West Mexican sources seem to decline in importance, while two more sources from the Mexican highlands – Pachuca and Zaragoza – become important.

Table 3. Comparison of Late Formative Obsidian from Etlatongo, Monte Albán, and Carrizal			
Obsidian Source	Late Formative (Yucuita or Monte Albán early I) sites:		
	Etlatongo n = 106	Monte Albán n = 15	Carrizal n = 16
Paredón, Puebla	42%	73%	0%
Otumba, México	29%	7%	0%
Guadalupe Victoria, Puebla	14%	7%	25%
Sierra de Pachuca, Hidalgo	6%	0%	12%
Ucareo, Michoacán	5%	1%	0%
Zaragoza, Puebla	3%	7%	19%
Pico de Orizaba, Veracruz	3%	0%	3%
El Chayal, Guatemala	1%	0%	12%
San Martín Jilotepeque, Guatemala	0%	0%	2%

Comparison with Monte Albán, the center of the emerging Classic Zapotec state in the Valley of Oaxaca, shows a decreased variety of sources. Only five sources are represented in the sample tested by INAA, and of these the Paredón source constitutes the vast majority (73%) of the sample. The nearly total focus on the Paredón source at Monte Albán also contrasts with the obsidian analyzed from Carrizal. This site, located along important Isthmus of Tehuantepec trade routes, contained no examples of the Central Mexican highland sources – Paredón and Otumba – so important at Etlatongo and Monte Albán. Instead, obsidian sources represented are much more evenly divided between six sources, two of which (Chayal and San Martín Jilotepeque) are Guatemalan. West Mexican sources are absent in the Carrizal sample, while the important Guadalupe Victoria source in Puebla is the most frequent (25%). Carrizal was located adjacent to Isthmus trade routes that channeled Guatemala obsidian into the Southern and Central Highlands.

Conclusion

With the support of FAMSI, 365 obsidian fragments were sourced. Combined with the results of the pilot study, there is now a database of 410 obsidian samples that have been sourced for the Cruz B and Yucuita phases at Oaxaca. These data allow for significant synchronic interpretations at Etlatongo – different access to select obsidian sources – as well as important diachronic patterns. Ancient inhabitants of Etlatongo participated in a variety of exchange networks that brought obsidian from as far away as West México and Guatemala to their houses. Rather than being a "periphery" compared to the Valley of Oaxaca, I argue that Etlatongo was at a level of socio-political complexity similar to that of the largest center in the Oaxaca Valley – San José Mogote.

While the interpretations and conclusions presented in this report will be refined as the database is further analyzed and expanded, this project has generated raw data available for comparative research by scholars investigating questions of political economy and social complexity in Formative Oaxaca and beyond. I envision the data presented in [Appendix 1](#) as relevant to any researcher exploring interregional interaction during the Formative period in Mesoamerica.

Acknowledgements

In addition to support from the Foundation for the Advancement of Mesoamerican Studies, Inc., (FAMSI), the cost of the current project was partially underwritten by a National Science Foundation grant (BCS-0102325) to MURR, where analysis was supervised by Dr. Michael Glascock. This research could not have been performed without the cooperation and permission of the Instituto Nacional de Antropología e Historia (INAH). I extend my thanks to everyone involved on both the Oaxaca and México City levels in helping me export these samples to MURR. A special thanks is extended to Dr. Marcus Winter in Oaxaca for helping to search for samples from contexts he excavated and sharing them with me. Finally, I wish to thank the many people at San Mateo Etlatongo who have assisted in all stages of the research, plus the many colleagues and friends who have participated in the research or offered advice throughout the project.

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**Appendix 1. Element Concentrations, Site Names and Source Names for
Obsidian Artifacts from Oaxaca**

Prepared by Michael Glascock, MURR

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET9201	ET9201	6.56	0	1003	7.56	4.37	372	2.99
ET9202	ET9202	6.23	0	1129	7.27	4.33	365	2.93
ET9203	ET9203	6.30	0	1137	7.52	4.15	366	2.93
ET9204	ET9204	6.26	0	1072	7.50	4.24	365	2.92
ET9205	ET9205	6.40	0	1074	7.59	4.14	364	2.93
ET9206	ET9206	6.48	0	1108	7.83	4.21	371	2.97
ET9207	ET9207	6.12	0	1058	7.78	4.21	375	3.02
ET9208	ET9208	6.55	0	1114	7.86	4.32	374	3.00
ET9209	ET9209	6.12	0	1093	7.51	3.91	354	2.89
ET9210	ET9210	6.38	0	1074	7.52	3.89	365	2.95
ET9211	ET9211	6.35	0	1044	7.46	4.15	361	2.88
ET9212	ET9212	6.21	0	1080	8.12	3.90	370	2.99
ET9213	ET9213	6.91	672	543	2.16	3.29	563	3.18
ET9214	ET9214	6.80	818	405	2.12	3.70	582	3.25
ET9215	ET9215	6.30	915	463	1.99	3.21	507	3.17
ET9216	ET9216	6.88	0	1137	7.54	4.13	366	2.95
ET9217	ET9217	6.66	972	734	1.54	3.46	532	3.33
ET9218	ET9218	6.62	0	1127	8.04	4.18	374	3.02
ET9219	ET9219	7.52	823	753	3.39	3.42	404	3.09
ET9220	ET9220	6.28	0	1140	7.71	4.21	367	2.96
ET9221	ET9221	7.04	745	757	2.76	3.27	398	3.05
ET9222	ET9222	6.45	142	563	3.89	4.16	177	2.82
ET9223	ET9223	6.65	141	501	3.79	4.25	175	2.82
ET9224	ET9224	6.82	907	546	2.40	3.62	654	3.07
ET9225	ET9225	6.26	48	458	3.69	3.99	172	2.73
ET9226	ET9226	6.29	84	509	4.05	4.37	176	2.71
ET9227	ET9227	6.63	139	437	3.81	4.27	175	2.79
ET9228	ET9228	7.13	994	710	1.92	3.40	453	2.90
ET9229	ET9229	6.30	93	1194	7.94	4.87	378	2.69
ET9230	ET9230	6.76	125	537	4.00	3.87	172	2.87
ET9231	ET9231	6.86	0	956	7.64	3.94	367	2.97
ET9232	ET9232	6.46	0	1011	8.23	4.36	365	2.88
ET9233	ET9233	6.57	0	834	7.99	4.16	355	2.86
ET9234	ET9234	7.11	0	1013	7.90	4.35	366	2.96
ET9235	ET9235	6.61	0	1039	7.70	3.85	359	2.91
ET9236	ET9236	6.73	87	950	8.62	4.03	373	3.03
ET9237	ET9237	6.84	0	927	8.18	4.27	367	2.97
ET9238	ET9238	6.77	0	1216	7.86	3.91	366	2.92
ET9239	ET9239	6.49	0	972	7.94	4.08	361	2.92

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET9240	ET9240	6.63	0	976	7.26	4.11	363	2.94
ET9241	ET9241	6.55	0	930	7.61	4.02	361	2.93
ET9242	ET9242	7.40	914	628	3.10	3.08	644	3.01
ET9243	ET9243	7.06	717	510	2.79	3.17	390	3.02
ET9244	ET9244	6.59	0	1004	7.63	3.90	358	2.93
ET9245	ET9245	6.46	0	976	7.39	4.14	359	2.92
new samples								
ET046	ET92046	6.49	0	739	7.84	4.14	370	2.97
ET047	ET92047	6.46	55	785	7.98	4.06	369	2.94
ET048	ET92048	6.72	0	800	8.07	4.21	372	2.99
ET049	ET92049	6.33	0	783	7.84	4.16	369	2.97
ET050	ET92050	6.72	0	812	8.04	4.44	371	2.99
ET051	ET92051	6.99	0	828	8.78	4.26	372	3.00
ET052	ET92052	6.56	0	751	8.06	4.15	368	2.95
ET053	ET92053	6.59	47	797	8.18	4.25	371	2.99
ET054	ET92054	6.92	815	396	1.57	3.32	528	3.29
ET055	ET92055	6.64	53	765	7.63	4.22	370	3.00
ET056	ET92056	6.50	0	786	8.17	4.09	367	2.96
ET057	ET92057	6.63	0	741	7.66	4.10	370	2.99
ET058	ET92058	6.47	0	771	7.66	4.23	369	2.96
ET059	ET92059	7.86	795	281	2.98	3.56	404	3.09
ET060	ET92060	6.72	52	735	8.32	4.18	374	2.99
ET061	ET92061	6.50	37	793	8.17	4.40	369	2.97
ET062	ET92062	7.41	0	764	7.76	4.42	371	2.99
ET063	ET92063	6.66	0	834	8.26	4.09	374	3.01
ET064	ET92064	7.76	772	334	3.35	3.67	406	3.11
ET065	ET92065	6.47	114	741	7.92	4.32	370	2.98
ET066	ET92066	6.83	0	751	8.15	4.15	369	2.99
ET067	ET92067	7.32	802	324	3.45	3.82	404	3.12
ET068	ET92068	6.37	114	610	7.80	4.60	370	2.82
ET069	ET92069	6.74	0	731	7.65	4.39	369	2.98
ET070	ET92070	6.59	44	640	7.53	3.82	365	2.94
ET071	ET92071	6.74	0	646	7.49	3.89	372	2.99
ET072	ET92072	6.87	663	270	3.26	3.49	405	3.12
ET073	ET92073	6.54	96	646	8.67	4.16	371	2.94
ET074	ET92074	6.57	0	616	8.11	4.03	368	2.96
ET075	ET92075	6.51	76	571	8.64	4.07	374	3.02
ET076	ET92076	6.08	833	252	3.03	3.62	356	3.03

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET077	ET92077	6.49	0	658	8.86	4.49	378	3.01
ET078	ET92078	6.83	896	333	1.99	3.15	530	3.28
ET079	ET92079	6.53	43	652	8.31	4.20	377	3.00
ET080	ET92080	6.15	0	600	8.75	4.14	375	2.99
ET081	ET92081	6.42	71	628	9.00	3.91	380	3.04
ET082	ET92082	6.92	790	248	3.32	3.70	408	3.13
ET083	ET92083	6.59	0	553	8.22	4.28	371	2.96
ET084	ET92084	6.65	51	611	8.85	4.27	371	2.98
ET085	ET92085	6.45	88	625	8.23	4.17	370	2.90
ET086	ET92086	6.89	79	628	7.88	4.12	376	3.01
ET087	ET92087	6.45	82	534	8.44	3.97	375	2.99
ET088	ET92088	6.75	0	633	8.62	3.91	370	2.95
ET089	ET92089	6.43	0	637	8.00	4.11	369	2.96
ET090	ET92090	6.65	0	563	8.53	4.35	376	3.02
ET091	ET92091	6.92	51	608	1.14	4.22	378	3.02
ET092	ET92092	6.64	198	228	4.18	3.81	171	2.76
ET093	ET92093	7.05	0	605	8.89	4.06	379	3.03
ET094	ET92094	6.54	90	651	8.66	4.19	376	3.00
ET095	ET92095	6.20	0	603	8.58	4.23	372	2.97
ET096	ET92096	6.84	0	509	8.17	4.28	369	2.96
ET097	ET92097	6.56	0	659	9.03	4.18	374	2.99
ET098	ET92098	6.55	0	602	8.32	3.96	372	2.99
ET099	ET92099	7.02	0	655	8.00	4.13	379	3.08
ET100	ET92100	7.31	805	255	2.60	3.43	391	3.03
ET101	ET92101	6.96	0	707	8.44	4.18	378	3.04
ET102	ET92102	7.58	817	284	3.28	3.41	405	3.12
ET103	ET92103	6.42	0	654	7.66	4.32	366	2.95
ET104	ET92104	6.53	37	601	7.21	4.69	366	2.60
ET105	ET92105	7.04	698	269	3.48	3.55	400	3.02
ET106	ET92106	7.33	836	328	2.87	3.37	402	3.08
ET107	ET92107	6.16	0	674	8.51	4.17	371	2.96
ET108	ET92108	6.46	0	705	7.64	4.22	365	2.93
ET109	ET92109	6.42	101	683	7.62	4.13	373	2.98
ET110	ET92110	6.22	0	710	7.18	4.06	364	2.92
ET111	ET92111	6.17	133	263	3.42	4.12	171	2.77
ET112	ET92112	6.60	62	707	7.63	4.18	370	2.99
ET113	ET92113	6.33	35	671	7.51	4.27	366	2.93
ET114	ET92114	7.59	736	259	3.09	3.34	403	3.06
ET115	ET92115	7.55	818	279	3.29	3.34	407	3.12

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET116	ET92116	7.17	783	281	3.85	3.41	400	3.05
ET117	ET92117	6.82	52	688	7.91	4.22	372	2.99
ET118	ET92118	6.31	73	644	7.65	4.11	370	2.98
ET119	ET92119	6.78	729	294	3.79	3.42	401	3.08
ET120	ET92120	6.71	0	708	8.38	4.27	374	2.99
ET121	ET92121	6.89	791	367	2.01	3.29	517	3.14
ET122	ET92122	6.94	0	230	7.82	3.76	243	3.21
ET123	ET92123	6.54	0	697	8.00	4.33	374	3.03
ET124	ET92124	6.26	0	661	7.40	4.18	366	2.93
ET125	ET92125	6.32	0	623	7.67	4.37	366	2.95
ET126	ET92126	6.38	37	764	7.87	4.67	377	3.05
ET127	ET92127	6.60	52	752	8.34	4.67	374	3.04
ET128	ET92128	6.60	955	354	1.95	3.90	537	3.27
ET129	ET92129	6.74	117	765	7.89	4.74	379	3.06
ET130	ET92130	7.26	822	333	3.13	3.68	404	3.11
ET131	ET92131	7.14	957	396	1.82	3.93	551	3.43
ET132	ET92132	6.22	0	786	8.16	4.51	364	2.96
ET133	ET92133	6.32	930	356	1.83	3.32	539	3.37
ET134	ET92134	7.24	739	312	3.37	3.49	408	3.15
ET135	ET92135	8.11	810	289	3.10	3.53	406	3.13
ET136	ET92136	7.19	863	382	1.88	3.58	529	3.32
ET137	ET92137	7.63	810	303	3.72	3.73	403	3.10
ET138	ET92138	6.77	0	770	7.88	4.45	367	2.98
ET139	ET92139	7.06	0	728	8.00	4.61	373	3.02
ET140	ET92140	6.53	0	746	7.83	4.54	373	3.03
ET141	ET92141	6.35	0	833	8.74	4.62	377	3.05
ET142	ET92142	6.38	0	691	7.62	4.60	371	2.99
ET143	ET92143	7.10	797	315	3.42	3.76	406	3.11
ET144	ET92144	7.38	778	276	2.82	3.86	405	3.13
ET145	ET92145	7.95	785	316	3.37	4.03	405	3.12
ET146	ET92146	7.08	929	305	1.90	3.57	518	3.27
ET147	ET92147	7.51	979	392	1.65	3.70	562	3.53
ET148	ET92148	7.22	795	332	3.07	3.84	403	3.13
ET149	ET92149	7.41	732	324	3.34	3.77	401	3.11
ET150	ET92150	7.41	824	292	3.25	3.68	405	3.11
ET151	ET92151	7.50	878	306	3.25	3.85	412	3.17
ET152	ET92152	7.65	766	309	3.47	3.53	405	3.13
ET153	ET92153	7.37	698	315	3.55	3.69	405	3.12
ET154	ET92154	7.28	731	317	3.39	3.53	408	3.15

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET155	ET92155	7.65	695	330	3.32	3.65	409	3.16
ET156	ET92156	6.97	0	705	7.70	3.75	368	2.97
ET157	ET92157	6.86	0	750	8.31	4.06	365	2.97
ET158	ET92158	6.41	76	715	7.89	4.05	364	2.96
ET159	ET92159	6.52	48	716	7.46	4.12	368	2.98
ET160	ET92160	6.74	0	759	7.95	4.18	372	2.99
ET161	ET92161	6.60	61	761	7.88	4.12	376	3.02
ET162	ET92162	6.80	0	695	8.48	3.90	372	2.98
ET163	ET92163	6.83	0	739	8.45	4.33	381	3.08
ET164	ET92164	6.45	0	696	7.73	4.27	369	2.94
ET165	ET92165	6.57	0	743	8.17	3.85	368	2.98
ET166	ET92166	6.67	0	728	7.33	4.07	366	2.94
ET167	ET92167	6.81	0	707	7.89	3.97	368	2.98
ET168	ET92168	6.60	0	714	8.16	4.10	375	3.02
ET169	ET92169	6.39	0	745	7.81	4.08	366	2.98
ET170	ET92170	7.87	790	313	3.03	3.19	397	3.05
ET171	ET92171	6.85	0	802	7.85	3.82	370	2.97
ET172	ET92172	7.33	918	311	3.19	3.35	402	3.12
ET173	ET92173	7.16	956	306	1.67	3.19	517	3.24
ET174	ET92174	6.82	0	768	8.30	4.18	376	3.04
ET175	ET92175	6.81	0	778	8.84	3.98	365	2.96
ET176	ET92176	6.64	0	762	7.58	3.91	366	2.94
ET177	ET92177	6.69	742	685	15.53	3.81	404	3.57
ET178	ET92178	6.77	83	682	7.93	4.01	370	2.99
ET179	ET92179	6.75	39	718	8.06	3.96	370	2.98
ET180	ET92180	6.60	58	649	8.45	3.98	363	2.94
ET181	ET92181	6.95	844	346	3.70	3.09	390	3.00
ET182	ET92182	6.32	0	709	7.56	4.73	368	2.76
ET183	ET92183	6.72	91	713	8.23	4.07	370	2.97
ET184	ET92184	6.83	118	746	7.80	4.07	369	2.96
ET185	ET92185	7.05	1015	390	1.75	3.19	516	3.23
ET186	ET92186	6.55	0	733	8.10	3.85	365	2.97
ET187	ET92187	6.30	72	604	8.00	4.28	366	2.96
ET188	ET92188	7.68	669	229	2.98	3.31	400	3.11
ET189	ET92189	6.54	148	285	3.95	3.97	174	2.80
ET190	ET92190	6.40	0	697	7.75	4.17	370	2.99
ET191	ET92191	7.17	141	244	3.84	4.04	175	2.87
ET192	ET92192	7.16	825	270	1.73	3.46	525	3.31
ET193	ET92193	7.05	777	243	1.94	3.60	533	3.32

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET194	ET92194	6.37	50	665	8.07	4.31	376	3.04
ET195	ET92195	0.00	98	20	0.00	0.00	309	0.02
ET196	ET92196	6.78	0	656	8.69	4.13	374	2.99
ET197	ET92197	6.64	0	651	8.01	4.20	370	2.97
ET198	ET92198	6.47	79	656	7.97	3.91	376	3.03
ET199	ET92199	6.22	0	693	8.47	4.22	373	2.98
ET200	ET92200	6.77	727	282	3.30	3.41	408	3.05
ET201	ET92201	6.49	50	628	7.13	4.10	364	2.94
ET202	ET92202	7.21	951	358	1.57	3.41	540	3.39
ET203	ET92203	6.40	0	744	7.82	4.21	368	2.97
ET204	ET92204	7.15	655	249	3.26	3.37	401	3.02
ET205	ET92205	6.59	0	682	8.09	4.22	378	3.04
ET206	ET92206	6.30	79	675	8.66	4.14	376	2.96
ET207	ET92207	6.49	111	245	3.57	4.05	170	2.77
ET208	ET92208	6.46	0	694	8.28	3.80	377	3.00
ET209	ET92209	7.10	691	306	3.15	3.52	402	3.07
ET210	ET92210	6.72	95	660	8.12	4.14	376	3.04
ET211	ET92211	6.32	46	645	8.44	4.20	362	2.91
ET212	ET92212	6.47	161	220	3.58	3.86	172	2.80
ET213	ET92213	7.43	749	265	3.02	3.40	398	3.10
ET214	ET92214	6.26	387	224	3.93	4.12	248	2.88
ET215	ET92215	7.08	728	321	2.80	3.85	395	2.81
ET216	ET92216	6.83	79	577	7.88	4.12	369	2.98
ET217	ET92217	6.95	930	328	2.13	3.20	532	3.27
ET218	ET92218	6.63	0	680	8.11	4.00	363	2.91
ET219	ET92219	7.92	947	314	3.05	3.24	399	3.07
ET220	ET92220	7.33	825	271	2.82	3.45	395	2.99
ET221	ET92221	6.59	0	723	8.12	4.42	363	2.97
ET222	ET92222	6.58	184	249	3.36	3.95	168	2.73
ET223	ET92223	7.61	793	286	3.23	3.40	395	3.06
ET224	ET92224	7.00	0	640	7.92	4.15	366	2.95
ET225	ET92225	6.51	0	739	8.20	4.14	364	2.97
ET226	ET92226	6.98	162	225	4.20	4.09	173	2.81
ET227	ET92227	7.32	884	314	3.45	3.37	391	3.04
ET228	ET92228	7.44	920	310	3.29	3.53	397	3.07
ET229	ET92229	7.46	908	281	3.00	3.66	394	3.09
ET230	ET92230	6.83	825	301	2.95	3.20	391	3.04
ET231	ET92231	7.80	819	336	2.83	3.48	393	3.05
ET232	ET92232	7.53	899	320	2.98	3.65	395	3.09

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET233	ET92233	6.66	185	216	3.47	4.13	169	2.75
ET234	ET92234	6.93	1046	379	1.39	3.19	524	3.26
ET235	ET92235	7.25	915	302	3.54	3.52	399	3.12
ET236	ET92236	6.39	0	702	7.95	4.44	367	2.96
ET237	ET92237	7.28	921	287	3.14	3.32	392	3.03
ET238	ET92238	6.41	0	610	7.93	4.25	362	2.93
ET239	ET92239	7.49	919	283	3.01	3.68	398	3.10
ET240	ET92240	7.51	877	292	2.83	3.63	397	3.10
ET241	ET92241	7.56	881	322	3.15	3.40	394	3.06
ET242	ET92242	6.97	1026	325	1.41	3.52	531	3.32
ET243	ET92243	7.43	865	307	2.46	3.28	398	3.12
ET244	ET92244	7.44	942	328	1.85	3.10	525	3.34
ET245	ET92245	7.14	1007	374	1.55	3.17	525	3.27
ET246	ET92246	6.08	0	968	15.69	3.76	1129	3.75
ET247	ET92247	6.07	0	939	16.03	3.61	1133	3.78
ET248	ET92248	7.55	820	297	3.11	3.40	392	3.06
ET249	ET92249	6.66	0	728	8.48	4.34	369	2.98
ET250	ET92250	6.08	0	867	16.35	3.73	1142	3.81
ET251	ET92251	7.14	840	337	2.84	3.37	392	3.06
ET252	ET92252	6.98	0	779	8.02	4.30	373	2.98
ET253	ET92253	7.31	811	304	1.70	3.51	516	3.20
ET254	ET92254	6.82	452	352	4.91	3.91	253	2.97
ET255	ET92255	7.59	767	260	2.97	3.29	397	3.07
ET256	ET92256	7.72	727	276	3.14	3.25	400	3.10
ET257	ET92257	6.63	97	735	8.29	4.04	376	3.04
ET258	ET92258	6.95	54	642	7.92	3.92	380	3.04
ET259	ET92259	6.96	26	645	8.11	4.01	376	3.04
ET260	ET92260	6.83	0	630	7.90	4.04	367	3.02
ET261	ET92261	6.66	799	238	2.81	3.11	414	3.06
ET262	ET92262	6.60	101	632	8.44	4.04	373	3.01
ET263	ET92263	6.66	65	612	7.77	3.94	366	2.93
ET264	ET92264	7.40	783	214	3.24	3.38	393	3.05
ET265	ET92265	6.94	656	229	1.79	3.49	567	3.18
ET266	ET92266	7.11	964	237	1.67	3.09	519	3.24
ET267	ET92267	6.79	913	302	1.81	3.22	511	3.21
ET268	ET92268	6.48	52	625	8.07	4.01	365	2.94
ET269	ET92269	7.18	132	257	3.97	4.14	176	2.84
ET270	ET92270	6.78	77	623	7.88	4.01	363	2.94
ET271	ET92271	6.54	72	590	7.67	3.74	360	2.92

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET272	ET92272	7.13	844	217	2.96	3.02	416	3.09
ET273	ET92273	6.70	411	368	5.27	4.00	256	3.02
ET274	ET92274	6.33	52	595	7.91	3.92	356	2.88
ET275	ET92275	6.43	0	672	8.04	3.77	366	2.95
ET276	ET92276	7.32	724	273	3.16	3.40	407	3.13
ET277	ET92277	7.75	751	300	2.92	3.26	400	3.08
ET278	ET92278	6.43	0	585	7.57	4.19	363	2.93
ET279	ET92279	6.51	6	607	8.28	4.03	365	3.12
ET280	ET92280	6.37	0	781	15.59	3.41	1119	3.57
ET281	ET92281	6.94	38	621	7.73	4.15	363	2.92
ET282	ET92282	6.36	29	631	8.08	3.96	358	2.90
ET283	ET92283	6.69	0	652	7.60	3.84	359	2.90
ET284	ET92284	6.87	0	639	8.34	4.22	376	3.01
ET285	ET92285	6.79	46	621	8.40	4.24	372	3.01
ET286	ET92286	6.07	0	567	7.52	3.96	354	2.89
ET287	ET92287	6.61	0	633	8.23	4.04	370	2.97
ET288	ET92288	5.45	0	838	15.63	3.22	1108	3.69
ET289	ET92289	6.86	80	628	7.66	4.01	377	3.03
ET290	ET92290	6.57	93	633	8.05	4.06	371	2.96
ET291	ET92291	6.49	47	590	7.44	3.84	366	2.95
ET292	ET92292	6.62	113	625	8.35	3.92	373	3.01
ET293	ET92293	6.89	943	301	1.76	3.27	526	3.31
ET294	ET92294	7.35	931	269	2.33	3.35	491	3.23
ET295	ET92295	6.85	0	602	8.29	4.16	364	2.94
ET296	ET92296	7.08	792	250	2.31	3.07	638	3.02
ET297	ET92297	7.14	748	207	1.82	3.45	542	3.14
ET298	ET92298	7.21	923	331	1.69	3.28	524	3.29
ET299	ET92299	7.29	784	284	3.18	3.25	395	3.03
ET300	ET92300	6.34	67	612	8.08	3.87	366	2.96
ET301	ET92301	6.63	841	296	1.85	2.97	513	3.23
ET302	ET92302	7.16	765	239	1.65	3.30	544	3.19
ET303	ET92303	6.30	0	615	7.03	4.28	365	2.92
ET304	ET92304	7.42	864	260	3.01	3.48	396	3.03
ET305	ET92305	6.92	0	680	7.47	4.21	372	2.97
ET306	ET92306	6.63	0	684	7.76	4.14	376	3.01
ET307	ET92307	6.52	0	645	7.18	4.28	369	2.93
ET308	ET92308	5.89	0	899	14.97	3.97	1165	3.84
ET309	ET92309	6.73	0	639	7.96	4.24	362	2.91
ET310	ET92310	6.87	906	341	1.55	3.32	523	3.25

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET311	ET92311	7.12	904	330	1.55	3.40	525	3.23
ET312	ET92312	6.56	0	664	6.79	4.21	364	2.93
ET313	ET92313	6.56	0	621	7.45	4.45	370	2.98
ET314	ET92314	6.75	976	305	1.30	3.45	525	3.28
ET315	ET92315	6.73	892	323	2.12	3.79	534	3.29
ET316	ET92316	6.73	951	353	1.62	3.75	531	3.26
ET317	ET92317	7.35	879	325	1.54	3.43	523	3.27
ET318	ET92318	6.90	1086	316	1.52	3.37	521	3.25
ET319	ET92319	6.65	886	288	0.96	3.17	513	3.20
ET320	ET92320	6.68	988	377	2.18	3.18	520	3.26
ET321	ET92321	6.53	1064	318	1.67	3.55	510	3.18
ET322	ET92322	6.75	915	373	1.41	3.34	523	3.24
ET323	ET92323	6.73	906	270	1.25	3.44	510	3.13
ET324	ET92324	6.66	715	235	1.42	3.65	547	3.08
ET325	ET92325	7.00	887	297	1.73	3.53	519	3.27
ET326	ET92326	6.45	670	227	1.94	3.63	566	3.16
ET327	ET92327	7.19	932	311	1.68	3.51	530	3.32
ET328	ET92328	6.63	943	286	1.66	3.44	531	3.30
ET329	ET92329	6.66	791	233	1.80	3.77	552	3.03
ET330	ET92330	7.00	911	348	2.08	3.49	529	3.28
ET331	ET92331	7.08	859	379	1.92	3.64	522	3.25
ET332	ET92332	7.09	774	216	1.43	3.53	564	3.18
ET333	ET92333	7.22	871	304	1.83	3.31	525	3.34
ET334	ET92334	7.00	890	361	1.93	3.68	518	3.25
ET335	ET92335	7.28	972	318	2.00	3.70	525	3.12
ET336	ET92336	7.32	990	343	1.92	3.44	533	3.34
ET337	ET92337	7.23	679	219	1.53	3.67	568	3.20
ET338	ET92338	6.98	866	294	2.34	3.40	520	3.24
ET339	ET92339	7.17	867	360	2.35	3.41	528	3.31
ET340	ET92340	6.59	974	364	1.96	3.48	524	3.27
ET341	ET92341	6.21	0	617	8.55	4.44	367	2.96
ET342	ET92342	6.82	822	272	1.26	3.23	520	3.28
ET343	ET92343	7.36	739	265	1.53	3.59	568	3.19
ET344	ET92344	7.29	737	254	2.50	3.55	573	3.25
ET345	ET92345	6.74	927	273	1.59	3.46	524	3.28
ET346	ET92346	6.68	866	264	1.48	3.48	516	3.21
ET347	ET92347	6.89	846	281	1.47	3.39	529	3.33
ET348	ET92348	7.11	795	266	1.44	3.33	526	3.31
ET349	ET92349	6.84	839	298	2.03	3.31	518	3.20

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET350	ET92350	7.34	870	322	1.39	3.33	519	3.31
ET351	ET92351	6.84	902	350	1.97	3.45	518	3.21
ET352	ET92352	6.99	913	292	1.84	3.25	512	3.22
ET353	ET92353	6.90	1001	331	1.97	3.52	533	3.32
ET354	ET92354	6.67	1118	334	1.31	3.69	538	3.36
ET355	ET92355	7.46	985	350	2.12	3.51	525	3.27
ET356	ET92356	7.07	1041	309	1.38	3.35	534	3.34
ET357	ET92357	7.33	1050	312	2.31	3.34	530	3.32
ET358	ET92358	7.40	1003	327	2.16	3.25	537	3.37
ET359	ET92359	7.00	972	307	1.58	3.37	512	3.18
ET360	ET92360	7.01	1067	300	2.14	3.45	518	3.25
ET361	ET92361	6.69	134	665	8.15	4.16	369	2.91
ET362	ET92362	6.62	50	624	8.27	4.23	370	2.99
ET363	ET92363	6.72	101	636	8.04	4.35	367	2.99
ET364	ET92364	6.78	102	680	7.79	4.34	364	2.96
ET365	ET92365	7.09	0	632	8.39	4.14	369	2.97
ET366	ET92366	6.86	169	671	8.04	4.12	367	2.95
ET367	ET92367	6.27	39	619	8.62	4.20	361	2.90
ET368	ET92368	6.55	0	648	8.04	4.26	366	2.96
ET369	ET92369	7.45	956	336	1.86	3.31	516	3.24
ET370	ET92370	5.89	405	323	4.66	3.85	243	2.64
ET371	ET92371	7.21	891	210	2.99	3.31	411	3.05
ET372	ET92372	6.81	69	639	8.47	4.37	374	3.05
ET373	ET92373	6.58	0	656	7.74	5.81	365	1.96
ET374	ET92374	6.77	91	628	7.85	4.14	362	2.90
ET375	ET92375	7.26	182	237	4.02	4.75	169	2.64
ET376	ET92376	7.27	1023	274	1.78	3.16	520	3.26
ET377	ET92377	7.46	959	391	2.64	3.30	661	3.11
ET378	ET92378	6.99	830	271	1.35	3.64	555	3.13
ET379	ET92379	6.60	469	405	4.60	3.98	248	2.94
ET380	ET92380	6.27	355	332	5.03	3.72	245	2.76
ET381	ET92381	6.91	1039	349	2.01	3.19	523	2.82
ET382	ET92382	6.27	0	839	16.30	3.38	1111	3.71
ET383	ET92383	6.37	0	921	16.59	3.55	1147	3.78
ET384	ET92384	6.64	665	308	2.12	3.28	553	3.11
ET385	ET92385	6.79	739	252	2.01	3.73	548	3.10
ET386	ET92386	7.12	1017	295	1.92	3.81	524	2.83
ET387	ET92387	7.34	913	295	1.96	3.34	525	3.28
ET388	ET92388	6.73	810	363	1.81	3.20	522	3.21

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Al (%)	Ba (ppm)	Cl (ppm)	Dy (ppm)	K (%)	Mn (ppm)	Na (%)
ET389	ET92389	7.51	859	401	2.34	3.14	655	3.09
ET390	ET92390	6.67	452	431	4.71	3.93	252	2.97
ET391	ET92391	6.87	865	273	1.89	3.40	514	3.27
ET392	ET92392	7.27	891	376	2.46	3.20	638	2.99
ET393	ET92393	7.11	801	374	1.82	3.32	516	3.24
ET394	ET92394	7.15	938	329	2.08	3.12	522	3.23
ET395	ET92395	6.86	946	328	1.63	3.48	523	3.26
ET396	ET92396	6.54	859	349	1.63	3.14	512	3.19
ET397	ET92397	7.09	824	314	2.34	3.11	527	3.29
ET398	ET92398	6.91	934	338	2.14	3.20	516	3.22
ET399	ET92399	6.66	611	216	1.89	3.31	549	3.08
ET400	ET92400	7.37	935	394	1.50	3.07	519	3.26
ET401	ET92401	6.71	836	341	1.74	3.03	516	3.20
ET402	ET92402	7.40	987	342	2.34	3.31	521	3.26
ET403	ET92403	6.71	894	333	1.73	3.12	516	3.19
ET404	ET92404	7.20	924	332	1.54	3.51	521	3.25
ET405	ET92405	7.04	977	377	2.03	3.36	527	3.30
ET406	ET92406	7.70	874	365	1.81	3.45	529	3.29
ET407	ET92407	7.13	964	336	1.69	3.55	520	3.26
ET408	ET92408	6.91	963	352	1.72	3.24	517	3.23
ET409	ET92409	6.70	952	319	1.84	3.27	513	3.23
ET410	ET92410	6.74	937	335	1.66	3.21	515	3.22
ET411	ET92411	7.05	882	377	1.65	3.51	518	3.22

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET9201	ET9201	Etlatongo, Oaxaca	Paredon, Puebla
ET9202	ET9202	Etlatongo, Oaxaca	Paredon, Puebla
ET9203	ET9203	Etlatongo, Oaxaca	Paredon, Puebla
ET9204	ET9204	Etlatongo, Oaxaca	Paredon, Puebla
ET9205	ET9205	Etlatongo, Oaxaca	Paredon, Puebla
ET9206	ET9206	Etlatongo, Oaxaca	Paredon, Puebla
ET9207	ET9207	Etlatongo, Oaxaca	Paredon, Puebla
ET9208	ET9208	Etlatongo, Oaxaca	Paredon, Puebla
ET9209	ET9209	Etlatongo, Oaxaca	Paredon, Puebla
ET9210	ET9210	Etlatongo, Oaxaca	Paredon, Puebla
ET9211	ET9211	Etlatongo, Oaxaca	Paredon, Puebla
ET9212	ET9212	Etlatongo, Oaxaca	Paredon, Puebla
ET9213	ET9213	Etlatongo, Oaxaca	Pico de Orizaba, Veracruz
ET9214	ET9214	Etlatongo, Oaxaca	Pico de Orizaba, Veracruz
ET9215	ET9215	Etlatongo, Oaxaca	Guadalupe Victoria, Puebla
ET9216	ET9216	Etlatongo, Oaxaca	Paredon, Puebla
ET9217	ET9217	Etlatongo, Oaxaca	Guadalupe Victoria, Puebla
ET9218	ET9218	Etlatongo, Oaxaca	Paredon, Puebla
ET9219	ET9219	Etlatongo, Oaxaca	Otumba, State of Mexico
ET9220	ET9220	Etlatongo, Oaxaca	Paredon, Puebla
ET9221	ET9221	Etlatongo, Oaxaca	Otumba, State of Mexico
ET9222	ET9222	Etlatongo, Oaxaca	Ucareo, Michoacan
ET9223	ET9223	Etlatongo, Oaxaca	Ucareo, Michoacan
ET9224	ET9224	Etlatongo, Oaxaca	El Chayal, Guatemala
ET9225	ET9225	Etlatongo, Oaxaca	Ucareo, Michoacan
ET9226	ET9226	Etlatongo, Oaxaca	Ucareo, Michoacan
ET9227	ET9227	Etlatongo, Oaxaca	Ucareo, Michoacan
ET9228	ET9228	Etlatongo, Oaxaca	Ixtepeque, Guatemala
ET9229	ET9229	Etlatongo, Oaxaca	Paredon, Puebla
ET9230	ET9230	Etlatongo, Oaxaca	Ucareo, Michoacan
ET9231	ET9231	Etlatongo, Oaxaca	Paredon, Puebla
ET9232	ET9232	Etlatongo, Oaxaca	Paredon, Puebla
ET9233	ET9233	Etlatongo, Oaxaca	Paredon, Puebla
ET9234	ET9234	Etlatongo, Oaxaca	Paredon, Puebla
ET9235	ET9235	Etlatongo, Oaxaca	Paredon, Puebla
ET9236	ET9236	Etlatongo, Oaxaca	Paredon, Puebla
ET9237	ET9237	Etlatongo, Oaxaca	Paredon, Puebla
ET9238	ET9238	Etlatongo, Oaxaca	Paredon, Puebla
ET9239	ET9239	Etlatongo, Oaxaca	Paredon, Puebla

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET9240	ET9240	Etlatongo, Oaxaca	Paredon, Puebla
ET9241	ET9241	Etlatongo, Oaxaca	Paredon, Puebla
ET9242	ET9242	Etlatongo, Oaxaca	El Chayal, Guatemala
ET9243	ET9243	Etlatongo, Oaxaca	Otumba, State of Mexico
ET9244	ET9244	Etlatongo, Oaxaca	Paredon, Puebla
ET9245	ET9245	Etlatongo, Oaxaca	Paredon, Puebla
new samples			
ET046	ET92046	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET047	ET92047	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET048	ET92048	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET049	ET92049	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET050	ET92050	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET051	ET92051	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET052	ET92052	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET053	ET92053	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET054	ET92054	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET055	ET92055	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET056	ET92056	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET057	ET92057	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET058	ET92058	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET059	ET92059	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET060	ET92060	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET061	ET92061	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET062	ET92062	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET063	ET92063	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET064	ET92064	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET065	ET92065	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET066	ET92066	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET067	ET92067	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET068	ET92068	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET069	ET92069	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET070	ET92070	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET071	ET92071	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET072	ET92072	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET073	ET92073	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET074	ET92074	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET075	ET92075	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET076	ET92076	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET077	ET92077	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET078	ET92078	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET079	ET92079	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET080	ET92080	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET081	ET92081	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET082	ET92082	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET083	ET92083	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET084	ET92084	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET085	ET92085	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET086	ET92086	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET087	ET92087	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET088	ET92088	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET089	ET92089	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET090	ET92090	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET091	ET92091	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET092	ET92092	Etlatongo, Mixteca Alta, Oax.	Ucareo, Michoacan
ET093	ET92093	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET094	ET92094	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET095	ET92095	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET096	ET92096	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET097	ET92097	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET098	ET92098	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET099	ET92099	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET100	ET92100	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET101	ET92101	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET102	ET92102	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET103	ET92103	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET104	ET92104	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla (anomalous low Na)
ET105	ET92105	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET106	ET92106	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET107	ET92107	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET108	ET92108	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET109	ET92109	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET110	ET92110	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET111	ET92111	Etlatongo, Mixteca Alta, Oax.	Ucareo, Michoacan
ET112	ET92112	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET113	ET92113	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET114	ET92114	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET115	ET92115	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET116	ET92116	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET117	ET92117	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET118	ET92118	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET119	ET92119	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET120	ET92120	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET121	ET92121	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET122	ET92122	Etlatongo, Mixteca Alta, Oax.	Cruz Negra, Michoacan
ET123	ET92123	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET124	ET92124	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET125	ET92125	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET126	ET92126	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET127	ET92127	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET128	ET92128	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET129	ET92129	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET130	ET92130	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET131	ET92131	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET132	ET92132	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET133	ET92133	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET134	ET92134	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET135	ET92135	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET136	ET92136	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET137	ET92137	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET138	ET92138	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET139	ET92139	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET140	ET92140	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET141	ET92141	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET142	ET92142	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET143	ET92143	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET144	ET92144	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET145	ET92145	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET146	ET92146	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET147	ET92147	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET148	ET92148	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET149	ET92149	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET150	ET92150	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET151	ET92151	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET152	ET92152	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET153	ET92153	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET154	ET92154	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET155	ET92155	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET156	ET92156	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET157	ET92157	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET158	ET92158	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET159	ET92159	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET160	ET92160	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET161	ET92161	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET162	ET92162	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET163	ET92163	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET164	ET92164	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET165	ET92165	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET166	ET92166	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET167	ET92167	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET168	ET92168	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET169	ET92169	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET170	ET92170	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET171	ET92171	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET172	ET92172	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET173	ET92173	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET174	ET92174	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET175	ET92175	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET176	ET92176	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET177	ET92177	Etlatongo, Mixteca Alta, Oax.	Tulancingo, Hidalgo
ET178	ET92178	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET179	ET92179	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET180	ET92180	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET181	ET92181	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET182	ET92182	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET183	ET92183	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET184	ET92184	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET185	ET92185	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET186	ET92186	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET187	ET92187	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET188	ET92188	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET189	ET92189	Etlatongo, Mixteca Alta, Oax.	Ucareo, Michoacan
ET190	ET92190	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET191	ET92191	Etlatongo, Mixteca Alta, Oax.	Ucareo, Michoacan
ET192	ET92192	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET193	ET92193	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET194	ET92194	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET195	ET92195	Etlatongo, Mixteca Alta, Oax.	chert
ET196	ET92196	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET197	ET92197	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET198	ET92198	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET199	ET92199	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET200	ET92200	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET201	ET92201	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET202	ET92202	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET203	ET92203	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET204	ET92204	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET205	ET92205	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET206	ET92206	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET207	ET92207	Etlatongo, Mixteca Alta, Oax.	Ucareo, Michoacan
ET208	ET92208	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET209	ET92209	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET210	ET92210	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET211	ET92211	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET212	ET92212	Etlatongo, Mixteca Alta, Oax.	Ucareo, Michoacan
ET213	ET92213	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET214	ET92214	Etlatongo, Mixteca Alta, Oax.	Zaragoza, Puebla
ET215	ET92215	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET216	ET92216	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET217	ET92217	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET218	ET92218	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET219	ET92219	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET220	ET92220	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET221	ET92221	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET222	ET92222	Etlatongo, Mixteca Alta, Oax.	Ucareo, Michoacan
ET223	ET92223	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET224	ET92224	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET225	ET92225	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET226	ET92226	Etlatongo, Mixteca Alta, Oax.	Ucareo, Michoacan
ET227	ET92227	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET228	ET92228	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET229	ET92229	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET230	ET92230	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET231	ET92231	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET232	ET92232	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET233	ET92233	Etlatongo, Mixteca Alta, Oax.	Ucareo, Michoacan
ET234	ET92234	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET235	ET92235	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET236	ET92236	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET237	ET92237	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET238	ET92238	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET239	ET92239	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET240	ET92240	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET241	ET92241	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET242	ET92242	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET243	ET92243	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET244	ET92244	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET245	ET92245	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET246	ET92246	Etlatongo, Mixteca Alta, Oax.	Sierra de Pachuca-1, Hidalgo
ET247	ET92247	Etlatongo, Mixteca Alta, Oax.	Sierra de Pachuca-1, Hidalgo
ET248	ET92248	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET249	ET92249	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET250	ET92250	Etlatongo, Mixteca Alta, Oax.	Sierra de Pachuca-1, Hidalgo
ET251	ET92251	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET252	ET92252	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET253	ET92253	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET254	ET92254	Etlatongo, Mixteca Alta, Oax.	Zaragoza, Puebla
ET255	ET92255	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET256	ET92256	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET257	ET92257	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET258	ET92258	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET259	ET92259	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET260	ET92260	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET261	ET92261	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET262	ET92262	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET263	ET92263	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET264	ET92264	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET265	ET92265	Etlatongo, Mixteca Alta, Oax.	Pico de Orizaba, Veracruz
ET266	ET92266	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET267	ET92267	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET268	ET92268	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET269	ET92269	Etlatongo, Mixteca Alta, Oax.	Ucareo, Michoacan
ET270	ET92270	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET271	ET92271	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET272	ET92272	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET273	ET92273	Etlatongo, Mixteca Alta, Oax.	Zaragoza, Puebla
ET274	ET92274	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET275	ET92275	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET276	ET92276	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET277	ET92277	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET278	ET92278	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET279	ET92279	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET280	ET92280	Etlatongo, Mixteca Alta, Oax.	Sierra de Pachuca-1, Hidalgo
ET281	ET92281	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET282	ET92282	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET283	ET92283	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET284	ET92284	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET285	ET92285	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET286	ET92286	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET287	ET92287	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET288	ET92288	Etlatongo, Mixteca Alta, Oax.	Sierra de Pachuca-1, Hidalgo
ET289	ET92289	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET290	ET92290	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET291	ET92291	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET292	ET92292	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET293	ET92293	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET294	ET92294	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET295	ET92295	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET296	ET92296	Etlatongo, Mixteca Alta, Oax.	El Chayal, Guatemala
ET297	ET92297	Etlatongo, Mixteca Alta, Oax.	Pico de Orizaba, Veracruz
ET298	ET92298	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET299	ET92299	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET300	ET92300	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET301	ET92301	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET302	ET92302	Etlatongo, Mixteca Alta, Oax.	Pico de Orizaba, Veracruz
ET303	ET92303	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET304	ET92304	Etlatongo, Mixteca Alta, Oax.	Otumba, State of Mexico
ET305	ET92305	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET306	ET92306	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET307	ET92307	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET308	ET92308	Etlatongo, Mixteca Alta, Oax.	Sierra de Pachuca-1, Hidalgo
ET309	ET92309	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET310	ET92310	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET311	ET92311	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET312	ET92312	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET313	ET92313	Etlatongo, Mixteca Alta, Oax.	Paredon, Puebla
ET314	ET92314	Etlatongo, Mixteca Alta, Oax.	Guadalupe Victoria, Puebla
ET315	ET92315	Zacatepec, Mixe, Oax.	Guadalupe Victoria, Puebla
ET316	ET92316	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET317	ET92317	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET318	ET92318	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET319	ET92319	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET320	ET92320	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET321	ET92321	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET322	ET92322	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET323	ET92323	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET324	ET92324	Yucuita, Mixteca Alta, Oax	Pico de Orizaba, Veracruz
ET325	ET92325	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET326	ET92326	Yucuita, Mixteca Alta, Oax	Pico de Orizaba, Veracruz
ET327	ET92327	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET328	ET92328	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET329	ET92329	Yucuita, Mixteca Alta, Oax	Pico de Orizaba, Veracruz
ET330	ET92330	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET331	ET92331	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET332	ET92332	Yucuita, Mixteca Alta, Oax	Pico de Orizaba, Veracruz
ET333	ET92333	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET334	ET92334	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET335	ET92335	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET336	ET92336	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET337	ET92337	Yucuita, Mixteca Alta, Oax	Pico de Orizaba, Veracruz
ET338	ET92338	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET339	ET92339	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET340	ET92340	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET341	ET92341	Yucuita, Mixteca Alta, Oax	Paredon, Puebla
ET342	ET92342	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET343	ET92343	Yucuita, Mixteca Alta, Oax	Pico de Orizaba, Veracruz
ET344	ET92344	Yucuita, Mixteca Alta, Oax	Pico de Orizaba, Veracruz
ET345	ET92345	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET346	ET92346	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET347	ET92347	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET348	ET92348	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET349	ET92349	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET350	ET92350	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET351	ET92351	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET352	ET92352	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET353	ET92353	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET354	ET92354	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET355	ET92355	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET356	ET92356	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET357	ET92357	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET358	ET92358	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET359	ET92359	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET360	ET92360	Yucuita, Mixteca Alta, Oax	Guadalupe Victoria, Puebla
ET361	ET92361	Monte Alban, Valley of Oaxaca	Paredon, Puebla
ET362	ET92362	Monte Alban, Valley of Oaxaca	Paredon, Puebla
ET363	ET92363	Monte Alban, Valley of Oaxaca	Paredon, Puebla
ET364	ET92364	Monte Alban, Valley of Oaxaca	Paredon, Puebla
ET365	ET92365	Monte Alban, Valley of Oaxaca	Paredon, Puebla
ET366	ET92366	Monte Alban, Valley of Oaxaca	Paredon, Puebla
ET367	ET92367	Monte Alban, Valley of Oaxaca	Paredon, Puebla
ET368	ET92368	Monte Alban, Valley of Oaxaca	Paredon, Puebla
ET369	ET92369	Monte Alban, Valley of Oaxaca	Guadalupe Victoria, Puebla
ET370	ET92370	Monte Alban, Valley of Oaxaca	Zaragoza, Puebla
ET371	ET92371	Monte Alban, Valley of Oaxaca	Otumba, State of Mexico
ET372	ET92372	Monte Alban, Valley of Oaxaca	Paredon, Puebla
ET373	ET92373	Monte Alban, Valley of Oaxaca	Paredon, Puebla (anomalous low Na)
ET374	ET92374	Monte Alban, Valley of Oaxaca	Paredon, Puebla
ET375	ET92375	Monte Alban, Valley of Oaxaca	Ucareo, Michoacan
ET376	ET92376	El Carrizal, Ixtepec. Isthmus, Oax	Guadalupe Victoria, Puebla
ET377	ET92377	El Carrizal, Ixtepec. Isthmus, Oax	El Chayal, Guatemala
ET378	ET92378	El Carrizal, Ixtepec. Isthmus, Oax	Pico de Orizaba, Veracruz
ET379	ET92379	El Carrizal, Ixtepec. Isthmus, Oax	Zaragoza, Puebla
ET380	ET92380	El Carrizal, Ixtepec. Isthmus, Oax	Zaragoza, Puebla
ET381	ET92381	El Carrizal, Ixtepec. Isthmus, Oax	San Martin Jilotepeque-1, Guatemala
ET382	ET92382	El Carrizal, Ixtepec. Isthmus, Oax	Sierra de Pachuca-1, Hidalgo
ET383	ET92383	El Carrizal, Ixtepec. Isthmus, Oax	Sierra de Pachuca-1, Hidalgo
ET384	ET92384	El Carrizal, Ixtepec. Isthmus, Oax	Pico de Orizaba, Veracruz
ET385	ET92385	El Carrizal, Ixtepec. Isthmus, Oax	Pico de Orizaba, Veracruz
ET386	ET92386	El Carrizal, Ixtepec. Isthmus, Oax	San Martin Jilotepeque-1, Guatemala
ET387	ET92387	El Carrizal, Ixtepec. Isthmus, Oax	Guadalupe Victoria, Puebla
ET388	ET92388	El Carrizal, Ixtepec. Isthmus, Oax	Guadalupe Victoria, Puebla

Element Concentrations, Site Names and Source Names for Obsidian Artifacts from Oaxaca

Anid	Field_ID	Site Name	Source Name
ET389	ET92389	El Carrizal, Ixtepec. Isthmus, Oax	El Chayal, Guatemala
ET390	ET92390	El Carrizal, Ixtepec. Isthmus, Oax	Zaragoza, Puebla
ET391	ET92391	El Carrizal, Ixtepec. Isthmus, Oax	Guadalupe Victoria, Puebla
ET392	ET92392	R. Dolores Ortiz, Cuicatlan Canada, Oax	El Chayal, Guatemala
ET393	ET92393	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET394	ET92394	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET395	ET92395	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET396	ET92396	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET397	ET92397	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET398	ET92398	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET399	ET92399	R. Dolores Ortiz, Cuicatlan Canada, Oax	Pico de Orizaba, Veracruz
ET400	ET92400	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET401	ET92401	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET402	ET92402	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET403	ET92403	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET404	ET92404	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET405	ET92405	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET406	ET92406	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET407	ET92407	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET408	ET92408	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET409	ET92409	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET410	ET92410	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla
ET411	ET92411	R. Dolores Ortiz, Cuicatlan Canada, Oax	Guadalupe Victoria, Puebla