| **Basin** | **Approximate Elevation****(m asl)** | **Context** | **Dated Material** | **14C Age** | **2σ Calibrated****Age Range (Probability)****[µ]** | **Sample ID** | **Reference(s)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Harney-Malheur* |  |  |  |  |  |  |  |
| *Pluvial Lake Malheur: Sill/Highstand at 1254 m asl; Basin Floor at ~1244 m asl* |
|  | 1249 | Shoreline | Shell | 32,040±400 | 34,994-36,822 (1.0)[*35,926*] | USGS-459B | Gehr (1980); Gehr and Newman (1978) |
|  | 1250 | Shoreline | Shell | 29,700±280 | 33,317-34,370 (1.0)[*33,843*] | USGS-841 | Dugas (1998) |
|  | 1249 | Shoreline | Shell | 29,200±300 | 32,632-33,963 (1.0)[*33,374*] | USGS-840 | Dugas (1998) |
|  | 1250 | Shoreline | Shell | 23,800±500 | 27,099-28,893 (1.0)[*27,956*] | USGS-458 | Gehr (1980) |
|  | 1249 | Shoreline | Shell | 22,900±260 | 26,578-27,642 (1.0)[*27,200*] | USGS-459A | Gehr (1980) |
|  | 1254 | Shoreline | Shell | 9860±80 | 11,144-11,612 (1.0)[*11,290*] | Beta-161511 | Wriston (2003) |
|  | 1252 | Shoreline | Shell | 9820±60 | 11,141-11,361 (0.991) & 11,376-11,389 (0.009)[*11,234*] | Beta-172010 | Wriston (2003) |
|  | 1250-1252 | Shoreline | Shell | 9620±50 | 10,774-11,172 (1.0)[*10,948*] | USGS-460B | Gehr (1980); Gehr and Newman (1978) |
|  | 1251 | Shoreline | Shell | 9550±60 | 10,691-11,131 (1.0)[*10,912*] | Beta-172011 | Wriston (2003) |
|  | 1252 | Marsh | Shell | 9540±60 | 10,674-11,125 (1.0)[*10,894*] | Beta-172009 | Wriston (2003) |
|  | 1246 | Nearshore | Shell | 9500±210 | 10,233-11,275 (1.0)[*10,808*] | Beta-57834 | Dugas (1996) |
|  | 1246 | Nearshore | Charcoal | 9290±150 | 10,186-10,876 (0.945) & 10,942-11,077 (0.055)[*10,501*] | Beta-57833 | Dugas (1996) |
|  | 1250 | Shoreline | Shell | 9280±80 | 10,251-10,609 (0.941) & 10,612-10,660 (0.059)[*10,460*] | USGS-460A | Gehr (1980) |
|  | 1254 | Shoreline | Shell | 8680±55 | 9,536-9,795 (0.975) & 9,805-9,816 (0.008) & 9,848-9,865 (0.012) & 9,877-9,885 (0.006)[*9,637*] | USGS-461B | Gehr (1980) |
|  | 1250 | Shoreline | Shell | 8440±90 | 9,142-9,175 (0.016) & 9,207-9,219 (0.005) & 9,238-9,555 (0.979)[*9,443*] | Beta-51529 | Raven and Elston (1992) |
|  | 1254 | Shoreline | Shell | 8060±50 | 8,764-9,124 (1.0)[*8,969*] | USGS-461A | Gehr (1980) |
|  | 1250 | Shoreline | Shell | 7760±110 | 8,374-8,796 (0.918) & 8,827-8,868 (0.028) & 8,881-8,904 (0.012) & 8,906-8,976 (0.042)[*8,562*] | Beta-51527 | Raven and Elston (1992) |
|  | 1250 | Shoreline | Shell | 7370±200 | 7,792-8,561 (0.999) & 8,573-8,576 (0.001)[*8,185*] | Beta-51531 | Raven and Elston (1992) |
|  | 1254DryModerateHighLowModerateModerateLowModerateModerate | ShorelineDiamond PondDiamond PondDiamond PondDiamond PondDiamond PondDiamond PondDiamond PondDiamond PondDiamond Pond | CharcoalPollenPollenPollenPollenPollenPollenPollenPollenPollen | 1040±70~5400±55~4000±55~3700±55~2000±55~1400±55~900±55~500±55~300±55~150±55 | 788-1,088 (0.970) &1,109-1,125 (0.012) &1,133-1,144 (0.007) &1,159-1,172 (0.011)[*957*]6,005-6,083 (0.155) &6,099-6,161 (0.159) &6,168-6,296 (0.686)[*6,207*]4,260-4,261 (0.001) & 4,288-4,625 (0.974) &4,763-4,788 (0.025)[*4,478*]3,888-4,161 (0.965) &4,169-4,178 (0.007) &4,199-4,228 (0.028)[*4,040*]1,827-1,850 (0.029) &1,861-2,070 (0.920) &2,077-2,113 (0.051)[*1,955*]1,187-1,204 (0.027) &1,240-1,250 (0.010) &1,255-1,405 (0.963)[*1,317*]707-717 (0.017) &725-927 (0.983)[*824*]342-346 (0.004) &462-568 (0.778) &583-648 (0.218)[*532*]0-2 (0.003) &153-168 (0.029) &282-497 (0.968)[*380*]0-46 (0.170) &56-286 (0.830)[*152*] | Beta-66631Not ReportedNot ReportedNot ReportedNot ReportedNot ReportedNot ReportedNot ReportedNot ReportedNot Reported | Dugas and Bullock (1994)Wigand (1987)Wigand (1987)Wigand (1987)Wigand (1987)Wigand (1987)Wigand (1987)Wigand (1987)Wigand (1987)Wigand (1987) |
| *Chewaucan* |
| *Pluvial Lake Chewaucan: Highstand at 1378 m asl; Modern Lake Levels ~1264 m asl (Summer Lake) and 1297 m asl (Abert Lake)* |
|  | 1282 | Shoreline | Shell | 30,700±2500 | 29,871-40,241 (1.0)[*34,863*] | I-1640 | Allison (1945) |
|  | Low | Lacustrine | Paleomag. | ca. 27,400-23,200 | ca. 31,250- 27,500 |  | Negrini and Davis (1992) |
|  | 1281 | Nearshore? | Shell | 25,900 | 28,996-30,978 (1.0)[*30,061*] | I-11,311 | Allison (1982)\* no error range reported, assumed 500 years for calibration |
|  | 1312 | Shoreline | Shell | 22080±660 | 25,046-27,636 (1.0)[*26,376*] | I-11, 136 | Allison (1982) |
|  | Low | Lacustrine | Paleomag. | ca. 21,700-20,900 | ca. 25,950- 25,250 |  | Negrini and Davis (1992) |
|  | Low | Lacustrine | Paleomag. | ca. 20,100-19,300 | ca. 24,170-23,245 |  | Negrini and Davis (1992) |
|  | 1349 | Shoreline | Shell | 17,500±300 | 20,385-21,918 (1.0)[*21,155*] | I-11, 177 | Allison (1982) |
|  | High | Lacustrine | Paleomag. | ca. 16,800-16,700 | ca. 20,263-20,146 |  | Negrini and Davis (1992) |
|  | <1364 | Limiting | Bone | 13,260±60 | 15,733-16,148 (1.0)[*15,942*] | Beta-229782; | Jenkins (2007);Jenkins et al. (2013) |
|  | 1310 | Nearshore | Tufa | 12,495±90 | 14,235-15,101 (1.0)[*14,693*] | AA25321 | Freidel (2001) |
|  | 1310 | Nearshore | Tufa | 12,340±90 | 14,040-14,860 (1.0)[*14,387*] | AA25320 | Freidel (2001) |
|  | 1337 | Nearshore | Tufa | 12,050±130 | 13,563-14,247 (1.0)[*13,913*] | AA25323 | Freidel (2001) |
|  | 1310 | Shoreline | Shell | 12,030±90 | 13,635-13,667 (0.013) & 13,706-14,132 (0.987)[*13,890*] | Not Reported | Licciardi (2001) |
|  | 1325 | Pluvial Delta | Shell | 11,930±90 | 13,556-14,020 (1.0)[*13,762*] | Not Reported | Licciardi (2001) |
|  | 1321 | Nearshore | Tufa | 11,910±100 | 13,487-13,517 (0.017) & 13,540-14,016 (0.983)[*13,736*] | AA25322 | Freidel (2001) |
|  | 1329 | Nearshore | Tufa | 11,880±80 | 13,486-13,515 (0.018) & 13,541-13,872 (0.936) & 13,877-13,951 (0.046)[*13,689*] | Beta-82260  | Freidel (2001) |
|  | 1310 | Shoreline | Shell | 11,670±90 | 13,318-13,717 (1.0)[*13,501*] | Not Reported | Licciardi (2001) |
|  | 1310 | Shoreline | Shell | 11,560±120 | 13,126-13,610 (0.998) & 13,690-13,696 (0.002)[*13,390*] | Not Reported | Licciardi (2001) |
|  | ~1306 | Marsh | Tephra | 6,730±40 | 7,514-7,539 & 7,560-7,666 (1.0)[*7,597*] | Weighted Mean | Hansen (1947); Hallett et al. (1997) |
|  | Basin Floor | Dunes | Tephra |  6,730±40 | 7,514-7,539 (0.086) & 7,560-7,666 (0.914)[*7,597*] | Weighted Mean | Davis (1985); Hallett et al. (1997) |
| *Fort Rock* |
| *Pluvial Lake Fort Rock: Highstand at ~1356-1370 m asl; Basin Floor at 1310-1316 m asl* |
|  | 1365 | Shoreline | Shell | 33,560±640 | 36,222-39,314 (1.0)[*37,790*] | Beta-56910 | Freidel (1993) |
|  | 1356 | Shoreline | Shell | 29,720±600 | 32,351-34,927 (1.0)[*33,794*] | Beta-50951 | Freidel (1993) |
|  | 1335 | Shoreline | Shell | 13,380±230 (corrected for fractionation) | 15,364-16,783 (1.0)[*16,095*] | Gak-1752 | Bedwell (1973) |
|  | <1355 | Limiting | Charcoal | 13,200±720 | 13,717-17,723 (1.0)[*15,756*] | Gak-1738 | Bedwell (1973) |
|  | 1335 | Shoreline | Shell | 12,980±230 (uncorrected for fractionation) | 14,719-16,233 (1.0)[*15,517*] | Gak-1752 | Bedwell (1973) |
|  | <1356 | Limiting | Charcoal | 11,950±350 | 13,127-15,049 (1.0)[*13,917*] | Gak-1751 | Bedwell (1973) |
|  | 1312 | Nearshore | Ostracods | 11,490±90 | 13,132-13,482 (1.0)[*13,333*] | Beta-23957 | Freidel (1994) |
|  | <1355 | Limiting | Charcoal | 11,200±200 | 12,719-13,411 (1.0)[*13,056*] | Gak-2141 | Bedwell (1973) |
|  | <1312 | Limiting | Bone | 10,275±95 | 11,625-11,674 (0.016) & 11,695-12,421 (0.984)[*12,050*] | A-5495 | Freidel (1994) |
|  | 1314 | Limiting | Soil | 10,170±230 | 11,209-12,555 (1.0)[*11,837*] | Beta-85688 | Jenkins et al. (2004) |
|  | 1314 | Limiting | Charcoal/Hearth | 9400±270 | 9,799-9,801 (0.000) &9,819-9,845 (0.002) &9,868-9,873 (0.000) &9,887-11,398 (0.997)[*10,678*] | WSU-3499 | Jenkins et al. (2004) |
|  | 1312 | Limiting | Charcoal | 9130±130 | 9,912-10,604 (0.986) & 10,619-10,654 (0.014)[*10,320*] | Beta-23593 | Freidel (1994) |
|  | 1314 | Limiting | Tephra | 6,730±40 | 7,514-7,539 (0.086) & 7,560-7,666 (0.914)[*7,597*] | Weighted Mean | Allison (1979);Jenkins et al. (2004); Hallett et al. (1997) |
| *Surprise* |
| *Pluvial Lake Surprise:* *Highstand at ~1540 m asl; Basin Floor at 1357 m asl* |
|  | 1378 | Lacustrine | Trego Hot Springs Tephra | 23,200±300 | 26,812-27,903 (1.0)[*27,446*] |  | Hedel (1980,1984); Benson et al. (1997) |
|  | 1478 | Pluvial Delta | OSL |  | 23,800±4,600 |  | Personius et al. (2009) |
|  | 1419.5 | Nearshore | Tufa | 18,270±70 | 21,899-22,355 (1.0)[*22,140*] | Beta-342015 | Ibarra et al. (2014) |
|  | 1437.7 | Nearshore | Tufa | 17,580±70 | 20,978-21,511 (1.0)[*21,247*] | Beta-342013 | Ibarra et al. (2014) |
|  | 1419.5 | Nearshore | Tufa | 17,560±60 | 20,971-21,464 (1.0)[*21,217*] | Beta-340104 | Ibarra et al. (2014) |
|  | 1437.2 | Nearshore | Tufa | 17,490±90 | 20,836-21,432 (1.0)[*21,127*] | Beta-342018 | Ibarra et al. (2014) |
|  | 1430.6 | Nearshore | Tufa | 17,280±60 | 20,631-21,052 (1.0)[*20,836*] | Beta-340102 | Ibarra et al. (2014) |
|  | 1478 | Pluvial Delta | OSL |  | 19,600±2,500 |  | Personius et al. (2009) |
|  | 1433.1 | Nearshore | Tufa | 16,150±70 | 19,248-19,699 (1.0)[*19,491*] | Beta-342020 | Ibarra et al. (2014) |
|  | 1453.5 | Nearshore | Tufa | 15,930±70 | 18,988-19,457 (1.0)[*19,212*] | Beta-342012 | Ibarra et al. (2014) |
|  | 1530.7 | Nearshore | Tufa | 12,750±50 | 15,006-15,364 (1.0)[*15,192*] | Beta-342019 | Ibarra et al. (2014) |
|  | 1516.8 | Nearshore | Tufa | 12,600±50 | 14,693-15,178 (1.0)[*14,964*] | Beta-342017 | Ibarra et al. (2014) |
|  | 1508.9 | Nearshore | Tufa | 12,420±50 | 14,183-14,875 (1.0)[*14,515*] | Beta-340105 | Ibarra et al. (2014) |
|  | 1478 | Pluvial Delta | OSL |  | 13,400±4,600 |  | Personius et al. (2009) |
|  | 1478.4 | Nearshore | Tufa | 10,790±50 | 12,644-12,758 (1.0)[*12,708*] | Beta-342014 | Ibarra et al. (2014) |
|  | 1444.3 | Nearshore | Tufa | 9,470±40 | 10,581-10,794 (0.888) & 10,855-10,857 (0.001) & 10,963-11,007 (0.052) & 11,021-11,065 (0.059)[*10,713*] | Beta-342016 | Ibarra et al. (2014) |
|  | 1475 | Subaerial | Tephra | 6,730±40 | 7,514-7,539 (0.086) & 7,560-7,666 (0.914)[*7,597*] | Weighted Mean | Personius et al. (2009); Hallett et al. (1997) |
|  | <1376 | Limiting | Arch | 5,640±155 | 6,021-6,054 (0.010) & 6,058-6,079 (0.006) & 6,111-6,155 (0.015) & 6,173-6,792 (0.969)[*6,446*] | UCLA-1770 | O'Connell and Inoway (1994) |