Kidder and Grooms, Supplemental Information (SI)

1. Oxcal CQL code and data for each model iteration. (The Letter.Number before each date is our own unique identifier for the date.) Further information about the dates is available in Supplemental Table 1.

    a. Model 1 CULTURE
    b. Model 2 CULTURE
    c. Model 3 CULTURE
    d. Model 4 CULTURE
    e. KDE Model 1 CULTURE
    f. KDE Model 4 CULTURE
    g. Model 1 SITE
    h. Model 2 SITE
    i. Model 3 SITE
    j. Model 4 SITE
    k. Model 5
    l. KDE_plot models for Figures 7 and 8
        a. Model 4 CULTURE with KDE plot
        b. Model 4 SITE w/ KDE plot
        c. Model 5 Earthworks TPQ w/ KDE plot
        d. Jaketown SITE model used to produce Figure 8, summarized using the KDE_Plot function

2. Supplemental Information tables
    a. Supplemental Information Table 1. Radiocarbon Dates Used in this Analysis.
    b. Supplemental Information Table 2. All radiocarbon dates attributed to Poverty Point cultural contexts.
    c. Supplemental Information Table 3. Luminescence Dates from Poverty Point-Related Sites
3. References Cited in Supplemental Information Tables

1a. Model 1 CULTURE

```
Plot()
 {
  Sequence()
  {
   Boundary("Start 1");
   Phase("1")
   {
    R_Date("P. 1 L-195",2860,100);
    R_Date("P. 2 L-272",2700,100);
    R_Date("P. 3 M-403",2850,250);
    R_Date("P. 4 O-66",3150,120);
    R_Date("P. 5 Schatzman A",2685,210);
    R_Date("P. 6. Schatzman B",2339,200);
    R_Date("P. 7 M-2154",2820,150);
    R_Date("P. 8 LSU-73-057",2815,255);
    R_Date("P. 9 UGa-1697",2845,115);
    R_Date("P. 10 UGa-2468",3065,90);
    R_Date("P. 11 Tx-680",3000,90);
    R_Date("P. 12 Tx-4965",3110,90);
    R_Date("P. 13 Tx-4966",2490,80);
    R_Date("P. 14 Tx-4967a",4960,170);
    R_Date("P. 15 Tx-4967b",4350,240);
    R_Date("P. 16 Tx-4968",3400,100);
    R_Date("P. 17 Tx-4969",4960,80);
    R_Date("P. 18 Tx-4970",3800,70);
    R_Date("P. 19 Tx-4974",4850,110);
```

R_Date("P. 20 Tx-4983",3340,60);

R_Date("P. 21 Tx-4984",3130,210);

R_Date("P. 22 Tx-5324",2970,130);

R_Date("P. 23 Tx-5325",3760,720);

R_Date("P. 24 Tx-5326",2690,650);

R_Date("P. 25 Tx-5327",2580,730);

R_Date("P. 26 Tx-5328",2860,200);

R_Date("P. 27 Tx-5442",3230,70);

R_Date("P. 28 Tx-5443",3080,240);

R_Date("P. 29 Tx-5444",3220,80);

R_Date("P. 30 Tx-5445",3270,80);

R_Date("P. 31 Tx-5446",3080,70);

R_Date("P. 32 Tx-8440",2657,44);

R_Date("P. 33 Beta-47965",3180,70);

R_Date("P. 34 Beta-71858",3200,70);

R_Date("P. 35 Beta-71859",3180,130);

R_Date("P. 36. Beta-72595",3140,80);

R_Date("P, 37 Beta-75876",3400,130);

R_Date("P. 38 Beta-94168",3060,60);

R_Date("P. 39 Beta-122916",3160,140);

R_Date("P. 40 Beta-122917",3040,50);

R_Date("P. 41 Beta-153802",3110,40);

R_Date("P. 42 Beta-153803",2970,40);

R_Date("P. 43 Beta-153804",3040,70);

R_Date("P. 44 Beta-154367",3000,40);

R_Date("P. 45 Beta-175059",3340,40);

R_Date("P. 46 Beta-177759",3180,40);

R_Date("P. 47 Beta-177760",3120,40);

R_Date("P. 48 Beta-197514",3070,40);

R_Date("P. 49 Beta-207440",3060,40);

R_Date("P. 50 Beta-207441",3660,40);

R_Date("P. 51 Beta-219671",2980,40);

R_Date("P. 52 Beta-230783",3120,40);

R_Date("P. 53 Beta-260708",3100,49);

R_Date("P. 54 Beta-274979",3020,40);

R_Date("P. 55 Beta-274980",2990,40);

R_Date("P. 56 Beta-274981",3050,40);

R_Date("P. 57 Beta-330345",3010,30);

R_Date("P. 58 Beta-330346",3080,30);

R_Date("P. 59 Beta-359178",3090,30);

R_Date("P. 60 Beta-359179",2970,30);

R_Date("P. 61 Beta-410558",3180,30);

R_Date("P. 62 Beta-410559",2990,30);

R_Date("P. 63 Beta-473140",3150,30);

R_Date("P. 64 Beta-473141",3070,30);

R_Date("P. 65 Beta-473142",3140,30);

R_Date("P. 66 Beta-473143",3090,30);

R_Date("P. 67 Beta-473144",3200,30);

R_Date("P. 68 Beta-473145",3110,30);

R_Date("P. 69 Beta-503112",3270,30);

R_Date("P. 70 Beta-504188",3290,30);

R_Date("P. 71 Wk-10963",3123,59);

R_Date("P. 72 Wk-11282",3303,47);

R_Date("P. 73 Wk-11283",3264,47);

R_Date("P. 74 Wk-11284",3386,49);

R_Date("P. 75 Wk-11285",3068,47);

R_Date("P. 76 OS-136339",3120,25);

R_Date("P. 77 OS-136340",3060,30);

R_Date("P. 78 OS-136341",3060,20);

R_Date("P. 79 OS-136342",3070,20);

R_Date("P. 80 OS-136942",3240,30);

R_Date("P. 81 OS-167106",3230,45);

R_Date("M. 1 Beta-128950",3250,50);

R_Date("M. 2 Beta-128951",3570,40);

R_Date("M. 3 Beta-128952",3210,60);

R_Date("M. 4 Beta-128953",3250,50);

R_Date("M. 5 Beta-128954",3340,40);

R_Date("C. 3 I-13, 821",3410,140);

R_Date("C. 4 I-13, 822",3170,140);

R_Date("C. 5 I-13, 823",3460,90);

R_Date("C. 6 I-13, 824",3220,100);

R_Date("C. 7 I-13, 831",2980,140);

R_Date("C. 8 I-13, 832",3490,90);

R_Date("H. 1 UGA-2674",2880,40);

R_Date("JC. 1 A-4176",3440,90);

R_Date("JC. 2 Beta-9580",3040,100);

R_Date("JC. 3 Beta-9581",3170,90);

R_Date("L. 1 G-577",4440,140);

R_Date("L. 2 G-578",3840,130);

R_Date("L. 3 G-579",3540,120);

R_Date("L. 4 G-580",3990,170);

R_Date("L. 5 G-581",4040,140);

R_Date("B. 1 AA-9229",3150,65);

R_Date("CL. 1 Beta-453790",3370,30);

R_Date("CL. 3 Beta-453793",3820,30);

R_Date("CL. 4 Beta-453794",3020,30);

R_Date("CL. 5 Beta-453795",3020,30);

R_Date("CL. 6 Beta-453796",3090,30);

R_Date("CL. 7 Beta-454908",3010,30);

R_Date("CL. 8 Beta-454909",2970,30);

R_Date("CL. 9 Beta-454910",3150,30);

R_Date("CL. 10 Beta-454911",3000,30);

R_Date("CL. 11 Beta-454912",3030,30);

R_Date("CL. 12 UGa-1693",3385,140);

R_Date("CL. 13 I-3705",3100,100);

R_Date("CL. 14 TX-1403",3990,80);

R_Date("CL. 15 TX-1404",3470,160);

R_Date("CL. 16 Uga-359",3175,140);

R_Date("CP. 1 G-561",3200,130);

R_Date("T. 1 M-2393",3400,160);

R_Date("T. 2 M-2394",3020,150);

R_Date("T. 3 M-2415",3080,150);

R_Date("T. 4 M-2416",3470,160);

R_Date("T. 5 M-2412",3600,160);

R_Date("T. 6 M-2417",3380,160);

R_Date("T. 7 M-2413",3210,250);

R_Date("T. 8 M-2414",3270,200);

R_Date("T. 9 M-2395",3650,160);

R_Date("LE. 1 Beta 169320",2970,40);

R_Date("LE. 2 Beta 262804",3000,40);

R_Date("J. 1 M-216",2830,300);

R_Date("J. 2 L-114",2350,80);

```
 R_Date("J. 3 O-41",2560,100);
 R_Date("J. 4 O-46",2150,110);
 R_Date("J. 5 Beta-154428",3630,80);
 R_Date("J. 6 Beta-156646",3150,50);
 R_Date("J.7 Beta-157421",3350,40);
 R_Date("J. 8 Beta-236318",3170,40);
 R_Date("J. 9 Beta-235218",3260,40);
 R_Date("J. 10 Beta-253774",3660,40);
 R_Date("J. 11 Beta-253789",3120,40);
 R_Date("J. 13 Beta-252854",3220,40);
 R_Date("J. 14 Beta-263420",3280,40);
 R_Date("J. 15 Beta-263421",3220,40);
 R_Date("J. 17 Beta-264059",3340,40);
 R_Date("J. 18 Beta-555137",3260,30);
 R_Date("J. 19 UGA-38991",3150,20);
 R_Date("J. 20 UGA-38992",3150,20);
 R_Date("J. 21 UGA-38993",3110,20);
 R_Date("J. 22 UGA-41847",3910,70);
 R_Date("J. 23 UGA-41848",3200,25);
 R_Date("J. 24 AA-83901",3416,64);
 R_Date("J. 25 AA-83903",3201,39);
 R_Date("J. 26 AA-83902",3585,40);
 R_Date("J. 27 OS-151671",3170,20);
 R_Date("J. 28 OS-159306",3190,20);
 R_Date("J. 30 OS-160358",3160,20);
 R_Date("J. 31 OS-165296",3170,20);
};
Boundary("End 1");
```

```
  };
};
```

1b. Model 2 CULTURE

```
Plot()
 {
  Sequence()
  {
   Boundary("Start 1");
   Phase("1")
   {
    R_Date("P. 10 UGa-2468",3065,90);
    R_Date("P. 21 Tx-4984",3130,210);
    R_Date("P. 33 Beta-47965",3180,70);
    R_Date("P. 34 Beta-71858",3200,70);
    R_Date("P. 35 Beta-71859",3180,130);
    R_Date("P. 42 Beta-153803",2970,40);
    R_Date("P. 43 Beta-153804",3040,70);
    R_Date("P. 46 Beta-177759",3180,40);
    R_Date("P. 48 Beta-197514",3070,40);
    R_Date("P. 49 Beta-207440",3060,40);
    R_Date("P. 50 Beta-207441",3660,40);
    R_Date("P. 52 Beta-230783",3120,40);
    R_Date("P. 53 Beta-260708",3100,49);
    R_Date("P. 54 Beta-274979",3020,40);
    R_Date("P. 55 Beta-274980",2990,40);
    R_Date("P. 56 Beta-274981",3050,40);
    R_Date("P. 57 Beta-330345",3010,30);
    R_Date("P. 58 Beta-330346",3080,30);
    R_Date("P. 61 Beta-410558",3180,30);
    R_Date("P. 62 Beta-410559",2990,30);
```

R_Date("P. 63 Beta-473140",3150,30);

R_Date("P. 64 Beta-473141",3070,30);

R_Date("P. 66 Beta-473143",3090,30);

R_Date("P. 68 Beta-473145",3110,30);

R_Date("P. 69 Beta-503112",3270,30);

R_Date("P. 70 Beta-504188",3290,30);

R_Date("P. 71 Wk-10963",3123,59);

R_Date("P. 72 Wk-11282",3303,47);

R_Date("P. 73 Wk-11283",3264,47);

R_Date("P. 76 OS-136339",3120,25);

R_Date("P. 77 OS-136340",3060,30);

R_Date("P. 78 OS-136341",3060,20);

R_Date("P. 79 OS-136342",3070,20);

R_Date("P. 80 OS-136942",3240,30);

R_Date("P. 81 OS-167106",3230,45);

R_Date("M. 2 Beta-128951",3570,40);

R_Date("M. 4 Beta-128953",3250,50);

R_Date("M. 5 Beta-128954",3340,40);

R_Date("JC. 1 A-4176",3440,90);

R_Date("JC. 2 Beta-9580",3040,100);

R_Date("JC. 3 Beta-9581",3170,90);

R_Date("CL. 1 Beta-453790",3370,30);

R_Date("CL. 3 Beta-453793",3820,30);

R_Date("CL. 4 Beta-453794",3020,30);

R_Date("CL. 5 Beta-453795",3020,30);

R_Date("CL. 6 Beta-453796",3090,30);

R_Date("CL. 7 Beta-454908",3010,30);

R_Date("CL. 8 Beta-454909",2970,30);

```
 R_Date("CL. 9 Beta-454910",3150,30);
 R_Date("CL. 10 Beta-454911",3000,30);
 R_Date("CL. 11 Beta-454912",3030,30);
 R_Date("LE. 1 Beta 169320",2970,40);
 R_Date("J. 8 Beta-236318",3170,40);
 R_Date("J. 9 Beta-235218",3260,40);
 R_Date("J. 10 Beta-253774",3660,40);
 R_Date("J. 11 Beta-253789",3120,40);
 R_Date("J. 13 Beta-252854",3220,40);
 R_Date("J. 14 Beta-263420",3280,40);
 R_Date("J. 15 Beta-263421",3220,40);
 R_Date("J. 17 Beta-264059",3340,40);
 R_Date("J. 18 Beta-555137",3260,30);
 R_Date("J. 19 UGA-38991",3150,20);
 R_Date("J. 20 UGA-38992",3150,20);
 R_Date("J. 21 UGA-38993",3110,20);
 R_Date("J. 22 UGA-41847",3910,70);
 R_Date("J. 23 UGA-41848",3200,25);
 R_Date("J. 24 AA-83901",3416,64);
 R_Date("J. 25 AA-83903",3201,39);
 R_Date("J. 26 AA-83902",3585,40);
 R_Date("J. 27 OS-151671",3170,20);
 R_Date("J. 28 OS-159306",3190,20);
 R_Date("J. 30 OS-160358",3160,20);
 R_Date("J. 31 OS-165296",3170,20);
 };
 Boundary("End 1");
};
```

```
};
```

1c. Model 3 CULTURE

```
Plot()
 {
  Outlier_Model("General",T(5),U(0,4),"t");
  Sequence()
  {
   Boundary("Start 1");
   Phase("1")
   {
    R_Date("P. 10 UGa-2468",3065,90)
    {
     Outlier("General",0.05);
    };
    R_Date("P. 21 Tx-4984",3130,210)
    {
     Outlier("General",0.05);
    };
    R_Date("P. 33 Beta-47965",3180,70)
    {
     Outlier("General",0.05);
    };
    R_Date("P. 34 Beta-71858",3200,70)
    {
     Outlier("General",0.05);
    };
    R_Date("P. 35 Beta-71859",3180,130)
    {
     Outlier("General",0.05);
```

```
};
R_Date("P. 42 Beta-153803",2970,40)
{
 Outlier("General",0.05);
};
R_Date("P. 43 Beta-153804",3040,70)
{
 Outlier("General",0.05);
};
R_Date("P. 46 Beta-177759",3180,40)
{
 Outlier("General",0.05);
};
R_Date("P. 48 Beta-197514",3070,40)
{
 Outlier("General",0.05);
};
R_Date("P. 49 Beta-207440",3060,40)
{
 Outlier("General",0.05);
};
R_Date("P. 50 Beta-207441",3660,40)
{
 Outlier("General",0.05);
};
R_Date("P. 52 Beta-230783",3120,40)
{
 Outlier("General",0.05);
```

```
};
R_Date("P. 53 Beta-260708",3100,49)
{
 Outlier("General",0.05);
};
R_Date("P. 54 Beta-274979",3020,40)
{
 Outlier("General",0.05);
};
R_Date("P. 55 Beta-274980",2990,40)
{
 Outlier("General",0.05);
};
R_Date("P. 56 Beta-274981",3050,40)
{
 Outlier("General",0.05);
};
R_Date("P. 57 Beta-330345",3010,30)
{
 Outlier("General",0.05);
};
R_Date("P. 58 Beta-330346",3080,30)
{
 Outlier("General",0.05);
};
R_Date("P. 61 Beta-410558",3180,30)
{
 Outlier("General",0.05);
```

```
};
R_Date("P. 62 Beta-410559",2990,30)
{
 Outlier("General",0.05);
};
R_Date("P. 63 Beta-473140",3150,30)
{
 Outlier("General",0.05);
};
R_Date("P. 64 Beta-473141",3070,30)
{
 Outlier("General",0.05);
};
R_Date("P. 66 Beta-473143",3090,30)
{
 Outlier("General",0.05);
};
R_Date("P. 68 Beta-473145",3110,30)
{
 Outlier("General",0.05);
};
R_Date("P. 69 Beta-503112",3270,30)
{
 Outlier("General",0.05);
};
R_Date("P. 70 Beta-504188",3290,30)
{
 Outlier("General",0.05);
```

```
};
R_Date("P. 71 Wk-10963",3123,59)
{
 Outlier("General",0.05);
};
R_Date("P. 72 Wk-11282",3303,47)
{
 Outlier("General",0.05);
};
R_Date("P. 73 Wk-11283",3264,47)
{
 Outlier("General",0.05);
};
R_Date("P. 76 OS-136339",3120,25)
{
 Outlier("General",0.05);
};
R_Date("P. 77 OS-136340",3060,30)
{
 Outlier("General",0.05);
};
R_Date("P. 78 OS-136341",3060,20)
{
 Outlier("General",0.05);
};
R_Date("P. 79 OS-136342",3070,20)
{
 Outlier("General",0.05);
```

```
};
R_Date("P. 80 OS-136942",3240,30)
{
 Outlier("General",0.05);
};
R_Date("P. 81 OS-167106",3230,45)
{
 Outlier("General",0.05);
};
R_Date("M. 2 Beta-128951",3570,40)
{
 Outlier("General",0.05);
};
R_Date("M. 4 Beta-128953",3250,50)
{
 Outlier("General",0.05);
};
R_Date("M. 5 Beta-128954",3340,40)
{
 Outlier("General",0.05);
};
R_Date("JC. 1 A-4176",3440,90)
{
 Outlier("General",0.05);
};
R_Date("JC. 2 Beta-9580",3040,100)
{
 Outlier("General",0.05);
```

```
};
R_Date("JC. 3 Beta-9581",3170,90)
{
 Outlier("General",0.05);
};
R_Date("CL. 1 Beta-453790",3370,30)
{
 Outlier("General",0.05);
};
R_Date("CL. 3 Beta-453793",3820,30)
{
 Outlier("General",0.05);
};
R_Date("CL. 4 Beta-453794",3020,30)
{
 Outlier("General",0.05);
};
R_Date("CL. 5 Beta-453795",3020,30)
{
 Outlier("General",0.05);
};
R_Date("CL. 6 Beta-453796",3090,30)
{
 Outlier("General",0.05);
};
R_Date("CL. 7 Beta-454908",3010,30)
{
 Outlier("General",0.05);
```

```
};
R_Date("CL. 8 Beta-454909",2970,30)
{
 Outlier("General",0.05);
};
R_Date("CL. 9 Beta-454910",3150,30)
{
 Outlier("General",0.05);
};
R_Date("CL. 10 Beta-454911",3000,30)
{
 Outlier("General",0.05);
};
R_Date("CL. 11 Beta-454912",3030,30)
{
 Outlier("General",0.05);
};
R_Date("LE. 1 Beta 169320",2970,40)
{
 Outlier("General",0.05);
};
R_Date("J. 8 Beta-236318",3170,40)
{
 Outlier("General",0.05);
};
R_Date("J. 9 Beta-235218",3260,40)
{
 Outlier("General",0.05);
```

```
};
R_Date("J. 10 Beta-253774",3660,40)
{
 Outlier("General",0.05);
};
R_Date("J. 11 Beta-253789",3120,40)
{
 Outlier("General",0.05);
};
R_Date("J. 13 Beta-252854",3220,40)
{
 Outlier("General",0.05);
};
R_Date("J. 14 Beta-263420",3280,40)
{
 Outlier("General",0.05);
};
R_Date("J. 15 Beta-263421",3220,40)
{
 Outlier("General",0.05);
};
R_Date("J. 17 Beta-264059",3340,40)
{
 Outlier("General",0.05);
};
R_Date("J. 18 Beta-555137",3260,30)
{
 Outlier("General",0.05);
```

```
};
R_Date("J. 19 UGA-38991",3150,20)
{
 Outlier("General",0.05);
};
R_Date("J. 20 UGA-38992",3150,20)
{
 Outlier("General",0.05);
};
R_Date("J. 21 UGA-38993",3110,20)
{
 Outlier("General",0.05);
};
R_Date("J. 22 UGA-41847",3910,70)
{
 Outlier("General",0.05);
};
R_Date("J. 23 UGA-41848",3200,25)
{
 Outlier("General",0.05);
};
R_Date("J. 24 AA-83901",3416,64)
{
 Outlier("General",0.05);
};
R_Date("J. 25 AA-83903",3201,39)
{
 Outlier("General",0.05);
```

```
  };
  R_Date("J. 26 AA-83902",3585,40)
  {
   Outlier("General",0.05);
  };
  R_Date("J. 27 OS-151671",3170,20)
  {
   Outlier("General",0.05);
  };
  R_Date("J. 28 OS-159306",3190,20)
  {
   Outlier("General",0.05);
  };
  R_Date("J. 30 OS-160358",3160,20)
  {
   Outlier("General",0.05);
  };
  R_Date("J. 31 OS-165296",3170,20)
  {
   Outlier("General",0.05);
  };
 };
 Boundary("End 1");
};
};
```

1d. Model 4 CULTURE

```
Plot()
 {
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Outlier_Model("General",T(5),U(0,4),"t");
  Sequence()
  {
   Boundary("Start 1");
   Phase("1")
   {
    R_Date("P. 10 UGa-2468",3065,90)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 21 Tx-4984",3130,210)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 33 Beta-47965",3180,70)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 34 Beta-71858",3200,70)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 35 Beta-71859",3180,130)
    {
```

```
 Outlier("Charcoal", 1);
};
R_Date("P. 42 Beta-153803",2970,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 43 Beta-153804",3040,70)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 46 Beta-177759",3180,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 48 Beta-197514",3070,40)
{
 Outlier("General",0.05);
};
R_Date("P. 49 Beta-207440",3060,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 52 Beta-230783",3120,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 53 Beta-260708",3100,49)
{
```

```
 Outlier("General",0.05);
};
R_Date("P. 54 Beta-274979",3020,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 55 Beta-274980",2990,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 56 Beta-274981",3050,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 57 Beta-330345",3010,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 58 Beta-330346",3080,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 61 Beta-410558",3180,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 62 Beta-410559",2990,30)
{
```

```
 Outlier("General",0.05);
};
R_Date("P. 63 Beta-473140",3150,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 64 Beta-473141",3070,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 66 Beta-473143",3090,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 68 Beta-473145",3110,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 69 Beta-503112",3270,30)
{
 Outlier("General",0.05);
};
R_Date("P. 70 Beta-504188",3290,30)
{
 Outlier("General",0.05);
};
R_Date("P. 71 Wk-10963",3123,59)
{
```

```
 Outlier("Charcoal", 1);
};
R_Date("P. 72 Wk-11282",3303,47)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 73 Wk-11283",3264,47)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 76 OS-136339",3120,25)
{
 Outlier("General",0.05);
};
R_Date("P. 77 OS-136340",3060,30)
{
 Outlier("General",0.05);
};
R_Date("P. 78 OS-136341",3060,20)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 79 OS-136342",3070,20)
{
 Outlier("General",0.05);
};
R_Date("P. 80 OS-136942",3240,30)
{
```

```
 Outlier("Charcoal", 1);
};
R_Date("P. 81 OS-167106",3230,45)
{
 Outlier("General",0.05);
};
R_Date("M. 2 Beta-128951",3570,40)
{
 Outlier("Charcoal", 1);
};
R_Date("M. 4 Beta-128953",3250,50)
{
 Outlier("Charcoal", 1);
};
R_Date("M. 5 Beta-128954",3340,40)
{
 Outlier("Charcoal", 1);
};
R_Date("JC. 1 A-4176",3440,90)
{
 Outlier("General",0.05);
};
R_Date("JC. 2 Beta-9580",3040,100)
{
 Outlier("General",0.05);
};
R_Date("JC. 3 Beta-9581",3170,90)
{
```

```
 Outlier("General",0.05);
};
R_Date("CL. 1 Beta-453790",3370,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 4 Beta-453794",3020,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 5 Beta-453795",3020,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 6 Beta-453796",3090,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 7 Beta-454908",3010,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 8 Beta-454909",2970,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 9 Beta-454910",3150,30)
{
```

```
 Outlier("Charcoal", 1);
};
R_Date("CL. 10 Beta-454911",3000,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 11 Beta-454912",3030,30)
{
 Outlier("Charcoal", 1);
};
R_Date("LE. 1 Beta 169320",2970,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 8 Beta-236318",3170,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 9 Beta-235218",3260,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 10 Beta-253774",3660,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 11 Beta-253789",3120,40)
{
```

```
 Outlier("Charcoal", 1);
};
R_Date("J. 13 Beta-252854",3220,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 14 Beta-263420",3280,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 15 Beta-263421",3220,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 17 Beta-264059",3340,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 18 Beta-555137",3260,30)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 19 UGA-38991",3150,20)
{
 Outlier("General",0.05);
};
R_Date("J. 20 UGA-38992",3150,20)
{
```

```
 Outlier("General",0.05);
};
R_Date("J. 21 UGA-38993",3110,20)
{
 Outlier("General",0.05);
};
R_Date("J. 22 UGA-41847",3910,70)
{
 Outlier("General",0.05);
};
R_Date("J. 23 UGA-41848",3200,25)
{
 Outlier("General",0.05);
};
R_Date("J. 24 AA-83901",3416,64)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 25 AA-83903",3201,39)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 26 AA-83902",3585,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 27 OS-151671",3170,20)
{
```

```
   Outlier("General",0.05);
  };
  R_Date("J. 28 OS-159306",3190,20)
  {
   Outlier("General",0.05);
  };
  R_Date("J. 30 OS-160358",3160,20)
  {
   Outlier("General",0.05);
  };
  R_Date("J. 31 OS-165296",3170,20)
  {
   Outlier("Charcoal", 1);
  };
 };
 Boundary("End 1");
};
};
```

1e. KDE Model 1 CULTURE

```
Plot()
 {
  KDE_Model("KDE Model 1 CULTURE",N(0,1),U(0,1))
  {
   R_Date("P. 1 L-195",2860,100);
   R_Date("P. 2 L-272",2700,100);
   R_Date("P. 3 M-403",2850,250);
   R_Date("P. 4 O-66",3150,120);
   R_Date("P. 5 Schatzman A",2685,210);
   R_Date("P. 6. Schatzman B",2339,200);
   R_Date("P. 7 M-2154",2820,150);
   R_Date("P. 8 LSU-73-057",2815,255);
   R_Date("P. 9 UGa-1697",2845,115);
   R_Date("P. 10 UGa-2468",3065,90);
   R_Date("P. 11 Tx-680",3000,90);
   R_Date("P. 12 Tx-4965",3110,90);
   R_Date("P. 13 Tx-4966",2490,80);
   R_Date("P. 14 Tx-4967a",4960,170);
   R_Date("P. 15 Tx-4967b",4350,240);
   R_Date("P. 16 Tx-4968",3400,100);
   R_Date("P. 17 Tx-4969",4960,80);
   R_Date("P. 18 Tx-4970",3800,70);
   R_Date("P. 19 Tx-4974",4850,110);
   R_Date("P. 20 Tx-4983",3340,60);
   R_Date("P. 21 Tx-4984",3130,210);
   R_Date("P. 22 Tx-5324",2970,130);
   R_Date("P. 23 Tx-5325",3760,720);
```

R_Date("P. 24 Tx-5326",2690,650);

R_Date("P. 25 Tx-5327",2580,730);

R_Date("P. 26 Tx-5328",2860,200);

R_Date("P. 27 Tx-5442",3230,70);

R_Date("P. 28 Tx-5443",3080,240);

R_Date("P. 29 Tx-5444",3220,80);

R_Date("P. 30 Tx-5445",3270,80);

R_Date("P. 31 Tx-5446",3080,70);

R_Date("P. 32 Tx-8440",2657,44);

R_Date("P. 33 Beta-47965",3180,70);

R_Date("P. 34 Beta-71858",3200,70);

R_Date("P. 35 Beta-71859",3180,130);

R_Date("P. 36. Beta-72595",3140,80);

R_Date("P, 37 Beta-75876",3400,130);

R_Date("P. 38 Beta-94168",3060,60);

R_Date("P. 39 Beta-122916",3160,140);

R_Date("P. 40 Beta-122917",3040,50);

R_Date("P. 41 Beta-153802",3110,40);

R_Date("P. 42 Beta-153803",2970,40);

R_Date("P. 43 Beta-153804",3040,70);

R_Date("P. 44 Beta-154367",3000,40);

R_Date("P. 45 Beta-175059",3340,40);

R_Date("P. 46 Beta-177759",3180,40);

R_Date("P. 47 Beta-177760",3120,40);

R_Date("P. 48 Beta-197514",3070,40);

R_Date("P. 49 Beta-207440",3060,40);

R_Date("P. 50 Beta-207441",3660,40);

R_Date("P. 51 Beta-219671",2980,40);

R_Date("P. 52 Beta-230783",3120,40);

R_Date("P. 53 Beta-260708",3100,49);

R_Date("P. 54 Beta-274979",3020,40);

R_Date("P. 55 Beta-274980",2990,40);

R_Date("P. 56 Beta-274981",3050,40);

R_Date("P. 57 Beta-330345",3010,30);

R_Date("P. 58 Beta-330346",3080,30);

R_Date("P. 59 Beta-359178",3090,30);

R_Date("P. 60 Beta-359179",2970,30);

R_Date("P. 61 Beta-410558",3180,30);

R_Date("P. 62 Beta-410559",2990,30);

R_Date("P. 63 Beta-473140",3150,30);

R_Date("P. 64 Beta-473141",3070,30);

R_Date("P. 65 Beta-473142",3140,30);

R_Date("P. 66 Beta-473143",3090,30);

R_Date("P. 67 Beta-473144",3200,30);

R_Date("P. 68 Beta-473145",3110,30);

R_Date("P. 69 Beta-503112",3270,30);

R_Date("P. 70 Beta-504188",3290,30);

R_Date("P. 71 Wk-10963",3123,59);

R_Date("P. 72 Wk-11282",3303,47);

R_Date("P. 73 Wk-11283",3264,47);

R_Date("P. 74 Wk-11284",3386,49);

R_Date("P. 75 Wk-11285",3068,47);

R_Date("P. 76 OS-136339",3120,25);

R_Date("P. 77 OS-136340",3060,30);

R_Date("P. 78 OS-136341",3060,20);

R_Date("P. 79 OS-136342",3070,20);

R_Date("P. 80 OS-136942",3240,30);

R_Date("P. 81 OS-167106",3230,45);

R_Date("M. 1 Beta-128950",3250,50);

R_Date("M. 2 Beta-128951",3570,40);

R_Date("M. 3 Beta-128952",3210,60);

R_Date("M. 4 Beta-128953",3250,50);

R_Date("M. 5 Beta-128954",3340,40);

R_Date("C. 3 I-13, 821",3410,140);

R_Date("C. 4 I-13, 822",3170,140);

R_Date("C. 5 I-13, 823",3460,90);

R_Date("C. 6 I-13, 824",3220,100);

R_Date("C. 7 I-13, 831",2980,140);

R_Date("C. 8 I-13, 832",3490,90);

R_Date("H. 1 UGA-2674",2880,40);

R_Date("JC. 1 A-4176",3440,90);

R_Date("JC. 2 Beta-9580",3040,100);

R_Date("JC. 3 Beta-9581",3170,90);

R_Date("L. 1 G-577",4440,140);

R_Date("L. 2 G-578",3840,130);

R_Date("L. 3 G-579",3540,120);

R_Date("L. 4 G-580",3990,170);

R_Date("L. 5 G-581",4040,140);

R_Date("B. 1 AA-9229",3150,65);

R_Date("CL. 1 Beta-453790",3370,30);

R_Date("CL. 3 Beta-453793",3820,30);

R_Date("CL. 4 Beta-453794",3020,30);

R_Date("CL. 5 Beta-453795",3020,30);

R_Date("CL. 6 Beta-453796",3090,30);

R_Date("CL. 7 Beta-454908",3010,30);

R_Date("CL. 8 Beta-454909",2970,30);

R_Date("CL. 9 Beta-454910",3150,30);

R_Date("CL. 10 Beta-454911",3000,30);

R_Date("CL. 11 Beta-454912",3030,30);

R_Date("CL. 12 UGa-1693",3385,140);

R_Date("CL. 13 I-3705",3100,100);

R_Date("CL. 14 TX-1403",3990,80);

R_Date("CL. 15 TX-1404",3470,160);

R_Date("CL. 16 Uga-359",3175,140);

R_Date("CP. 1 G-561",3200,130);

R_Date("T. 1 M-2393",3400,160);

R_Date("T. 2 M-2394",3020,150);

R_Date("T. 3 M-2415",3080,150);

R_Date("T. 4 M-2416",3470,160);

R_Date("T. 5 M-2412",3600,160);

R_Date("T. 6 M-2417",3380,160);

R_Date("T. 7 M-2413",3210,250);

R_Date("T. 8 M-2414",3270,200);

R_Date("T. 9 M-2395",3650,160);

R_Date("LE. 1 Beta 169320",2970,40);

R_Date("LE. 2 Beta 262804",3000,40);

R_Date("J. 1 M-216",2830,300);

R_Date("J. 2 L-114",2350,80);

R_Date("J. 3 O-41",2560,100);

R_Date("J. 4 O-46",2150,110);

R_Date("J. 5 Beta-154428",3630,80);

R_Date("J. 6 Beta-156646",3150,50);

```
  R_Date("J.7 Beta-157421",3350,40);
  R_Date("J. 8 Beta-236318",3170,40);
  R_Date("J. 9 Beta-235218",3260,40);
  R_Date("J. 10 Beta-253774",3660,40);
  R_Date("J. 11 Beta-253789",3120,40);
  R_Date("J. 13 Beta-252854",3220,40);
  R_Date("J. 14 Beta-263420",3280,40);
  R_Date("J. 15 Beta-263421",3220,40);
  R_Date("J. 17 Beta-264059",3340,40);
  R_Date("J. 18 Beta-555137",3260,30);
  R_Date("J. 19 UGA-38991",3150,20);
  R_Date("J. 20 UGA-38992",3150,20);
  R_Date("J. 21 UGA-38993",3110,20);
  R_Date("J. 22 UGA-41847",3910,70);
  R_Date("J. 23 UGA-41848",3200,25);
  R_Date("J. 24 AA-83901",3416,64);
  R_Date("J. 25 AA-83903",3201,39);
  R_Date("J. 26 AA-83902",3585,40);
  R_Date("J. 27 OS-151671",3170,20);
  R_Date("J. 28 OS-159306",3190,20);
  R_Date("J. 30 OS-160358",3160,20);
  R_Date("J. 31 OS-165296",3170,20);
 };
};
```

1f. KDE Model 4 CULTURE

```
Plot()
 {
  KDE_Model("Model 4 CULTURE")
  {
   R_Date("P. 10 UGa-2468",3065,90)
   {
   };
   R_Date("P. 21 Tx-4984",3130,210)
   {
   };
   R_Date("P. 33 Beta-47965",3180,70)
   {
   };
   R_Date("P. 34 Beta-71858",3200,70)
   {
   };
   R_Date("P. 35 Beta-71859",3180,130)
   {
   };
   R_Date("P. 42 Beta-153803",2970,40)
   {
   };
   R_Date("P. 43 Beta-153804",3040,70)
   {
   };
   R_Date("P. 46 Beta-177759",3180,40)
   {
```

};
R_Date("P. 48 Beta-197514",3070,40)
{
};
R_Date("P. 49 Beta-207440",3060,40)
{
};
R_Date("P. 52 Beta-230783",3120,40)
{
};
R_Date("P. 53 Beta-260708",3100,49)
{
};
R_Date("P. 54 Beta-274979",3020,40)
{
};
R_Date("P. 55 Beta-274980",2990,40)
{
};
R_Date("P. 56 Beta-274981",3050,40)
{
};
R_Date("P. 57 Beta-330345",3010,30)
{
};
R_Date("P. 58 Beta-330346",3080,30)
{
};

R_Date("P. 61 Beta-410558",3180,30)

{

};

R_Date("P. 62 Beta-410559",2990,30)

{

};

R_Date("P. 63 Beta-473140",3150,30)

{

};

R_Date("P. 64 Beta-473141",3070,30)

{

};

R_Date("P. 66 Beta-473143",3090,30)

{

};

R_Date("P. 68 Beta-473145",3110,30)

{

};

R_Date("P. 69 Beta-503112",3270,30)

{

};

R_Date("P. 70 Beta-504188",3290,30)

{

};

R_Date("P. 71 Wk-10963",3123,59)

{

};

R_Date("P. 72 Wk-11282",3303,47)

{

};

R_Date("P. 73 Wk-11283",3264,47)

{

};

R_Date("P. 76 OS-136339",3120,25)

{

};

R_Date("P. 77 OS-136340",3060,30)

{

};

R_Date("P. 78 OS-136341",3060,20)

{

};

R_Date("P. 79 OS-136342",3070,20)

{

};

R_Date("P. 80 OS-136942",3240,30)

{

};

R_Date("P. 81 OS-167106",3230,45)

{

};

R_Date("M. 2 Beta-128951",3570,40)

{

};

R_Date("M. 4 Beta-128953",3250,50)

{

};
R_Date("M. 5 Beta-128954",3340,40)
{
};
R_Date("JC. 1 A-4176",3440,90)
{
};
R_Date("JC. 2 Beta-9580",3040,100)
{
};
R_Date("JC. 3 Beta-9581",3170,90)
{
};
R_Date("CL. 1 Beta-453790",3370,30)
{
};
R_Date("CL. 4 Beta-453794",3020,30)
{
};
R_Date("CL. 5 Beta-453795",3020,30)
{
};
R_Date("CL. 6 Beta-453796",3090,30)
{
};
R_Date("CL. 7 Beta-454908",3010,30)
{
};

R_Date("CL. 8 Beta-454909",2970,30)

{

};

R_Date("CL. 9 Beta-454910",3150,30)

{

};

R_Date("CL. 10 Beta-454911",3000,30)

{

};

R_Date("CL. 11 Beta-454912",3030,30)

{

};

R_Date("LE. 1 Beta 169320",2970,40)

{

};

R_Date("J. 8 Beta-236318",3170,40)

{

};

R_Date("J. 9 Beta-235218",3260,40)

{

};

R_Date("J. 10 Beta-253774",3660,40)

{

};

R_Date("J. 11 Beta-253789",3120,40)

{

};

R_Date("J. 13 Beta-252854",3220,40)

{
};
R_Date("J. 14 Beta-263420",3280,40)
{
};
R_Date("J. 15 Beta-263421",3220,40)
{
};
R_Date("J. 17 Beta-264059",3340,40)
{
};
R_Date("J. 18 Beta-555137",3260,30)
{
};
R_Date("J. 19 UGA-38991",3150,20)
{
};
R_Date("J. 20 UGA-38992",3150,20)
{
};
R_Date("J. 21 UGA-38993",3110,20)
{
};
R_Date("J. 22 UGA-41847",3910,70)
{
};
R_Date("J. 23 UGA-41848",3200,25)
{

```
  };
  R_Date("J. 24 AA-83901",3416,64)
  {
  };
  R_Date("J. 25 AA-83903",3201,39)
  {
  };
  R_Date("J. 26 AA-83902",3585,40)
  {
  };
  R_Date("J. 27 OS-151671",3170,20)
  {
  };
  R_Date("J. 28 OS-159306",3190,20)
  {
  };
  R_Date("J. 30 OS-160358",3160,20)
  {
  };
  R_Date("J. 31 OS-165296",3170,20)
  {
  };
 };
};
```

1g. Model 1 SITE

```
Plot()
 {
  Sequence()
  {
   Boundary("Start 1");
   Phase("1")
   {
    R_Date("P. 1 L-195",2860,100);
    R_Date("P. 2 L-272",2700,100);
    R_Date("P. 3 M-403",2850,250);
    R_Date("P. 4 O-66",3150,120);
    R_Date("P. 5 Schatzman A",2685,210);
    R_Date("P. 6. Schatzman B",2339,200);
    R_Date("P. 7 M-2154",2820,150);
    R_Date("P. 8 LSU-73-057",2815,255);
    R_Date("P. 9 UGa-1697",2845,115);
    R_Date("P. 10 UGa-2468",3065,90);
    R_Date("P. 11 Tx-680",3000,90);
    R_Date("P. 12 Tx-4965",3110,90);
    R_Date("P. 13 Tx-4966",2490,80);
    R_Date("P. 14 Tx-4967a",4960,170);
    R_Date("P. 15 Tx-4967b",4350,240);
    R_Date("P. 16 Tx-4968",3400,100);
    R_Date("P. 17 Tx-4969",4960,80);
    R_Date("P. 18 Tx-4970",3800,70);
    R_Date("P. 19 Tx-4974",4850,110);
```

R_Date("P. 20 Tx-4983",3340,60);

R_Date("P. 21 Tx-4984",3130,210);

R_Date("P. 22 Tx-5324",2970,130);

R_Date("P. 23 Tx-5325",3760,720);

R_Date("P. 24 Tx-5326",2690,650);

R_Date("P. 25 Tx-5327",2580,730);

R_Date("P. 26 Tx-5328",2860,200);

R_Date("P. 27 Tx-5442",3230,70);

R_Date("P. 28 Tx-5443",3080,240);

R_Date("P. 29 Tx-5444",3220,80);

R_Date("P. 30 Tx-5445",3270,80);

R_Date("P. 31 Tx-5446",3080,70);

R_Date("P. 32 Tx-8440",2657,44);

R_Date("P. 33 Beta-47965",3180,70);

R_Date("P. 34 Beta-71858",3200,70);

R_Date("P. 35 Beta-71859",3180,130);

R_Date("P. 36. Beta-72595",3140,80);

R_Date("P, 37 Beta-75876",3400,130);

R_Date("P. 38 Beta-94168",3060,60);

R_Date("P. 39 Beta-122916",3160,140);

R_Date("P. 40 Beta-122917",3040,50);

R_Date("P. 41 Beta-153802",3110,40);

R_Date("P. 42 Beta-153803",2970,40);

R_Date("P. 43 Beta-153804",3040,70);

R_Date("P. 44 Beta-154367",3000,40);

R_Date("P. 45 Beta-175059",3340,40);

R_Date("P. 46 Beta-177759",3180,40);

R_Date("P. 47 Beta-177760",3120,40);

R_Date("P. 48 Beta-197514",3070,40);

R_Date("P. 49 Beta-207440",3060,40);

R_Date("P. 50 Beta-207441",3660,40);

R_Date("P. 51 Beta-219671",2980,40);

R_Date("P. 52 Beta-230783",3120,40);

R_Date("P. 53 Beta-260708",3100,49);

R_Date("P. 54 Beta-274979",3020,40);

R_Date("P. 55 Beta-274980",2990,40);

R_Date("P. 56 Beta-274981",3050,40);

R_Date("P. 57 Beta-330345",3010,30);

R_Date("P. 58 Beta-330346",3080,30);

R_Date("P. 59 Beta-359178",3090,30);

R_Date("P. 60 Beta-359179",2970,30);

R_Date("P. 61 Beta-410558",3180,30);

R_Date("P. 62 Beta-410559",2990,30);

R_Date("P. 63 Beta-473140",3150,30);

R_Date("P. 64 Beta-473141",3070,30);

R_Date("P. 65 Beta-473142",3140,30);

R_Date("P. 66 Beta-473143",3090,30);

R_Date("P. 67 Beta-473144",3200,30);

R_Date("P. 68 Beta-473145",3110,30);

R_Date("P. 69 Beta-503112",3270,30);

R_Date("P. 70 Beta-504188",3290,30);

R_Date("P. 71 Wk-10963",3123,59);

R_Date("P. 72 Wk-11282",3303,47);

R_Date("P. 73 Wk-11283",3264,47);

R_Date("P. 74 Wk-11284",3386,49);

R_Date("P. 75 Wk-11285",3068,47);

```
  R_Date("P. 76 OS-136339",3120,25);
  R_Date("P. 77 OS-136340",3060,30);
  R_Date("P. 78 OS-136341",3060,20);
  R_Date("P. 79 OS-136342",3070,20);
  R_Date("P. 80 OS-136942",3240,30);
  R_Date("P. 81 OS-167106",3230,45);
 };
 Boundary("End 1");
};
};
```

1h. Model 2 SITE

```
Plot()
 {
  Sequence()
  {
   Boundary("Start 1");
   Phase("1")
   {
    R_Date("P. 10 UGa-2468",3065,90);
    R_Date("P. 21 Tx-4984",3130,210);
    R_Date("P. 33 Beta-47965",3180,70);
    R_Date("P. 34 Beta-71858",3200,70);
    R_Date("P. 35 Beta-71859",3180,130);
    R_Date("P. 42 Beta-153803",2970,40);
    R_Date("P. 43 Beta-153804",3040,70);
    R_Date("P. 46 Beta-177759",3180,40);
    R_Date("P. 48 Beta-197514",3070,40);
    R_Date("P. 49 Beta-207440",3060,40);
    R_Date("P. 50 Beta-207441",3660,40);
    R_Date("P. 52 Beta-230783",3120,40);
    R_Date("P. 53 Beta-260708",3100,49);
    R_Date("P. 54 Beta-274979",3020,40);
    R_Date("P. 55 Beta-274980",2990,40);
    R_Date("P. 56 Beta-274981",3050,40);
    R_Date("P. 57 Beta-330345",3010,30);
    R_Date("P. 58 Beta-330346",3080,30);
    R_Date("P. 61 Beta-410558",3180,30);
    R_Date("P. 62 Beta-410559",2990,30);
```

```
  R_Date("P. 63 Beta-473140",3150,30);
  R_Date("P. 64 Beta-473141",3070,30);
  R_Date("P. 66 Beta-473143",3090,30);
  R_Date("P. 68 Beta-473145",3110,30);
  R_Date("P. 69 Beta-503112",3270,30);
  R_Date("P. 70 Beta-504188",3290,30);
  R_Date("P. 71 Wk-10963",3123,59);
  R_Date("P. 72 Wk-11282",3303,47);
  R_Date("P. 73 Wk-11283",3264,47);
  R_Date("P. 76 OS-136339",3120,25);
  R_Date("P. 77 OS-136340",3060,30);
  R_Date("P. 78 OS-136341",3060,20);
  R_Date("P. 79 OS-136342",3070,20);
  R_Date("P. 80 OS-136942",3240,30);
  R_Date("P. 81 OS-167106",3230,45);
 };
 Boundary("End 1");
};
};
```

1i. Model 3 SITE

```
Plot()
 {
  Outlier_Model("General",T(5),U(0,4),"t");
  Sequence()
  {
   Boundary("Start 1");
   Phase("1")
   {
    R_Date("P. 10 UGa-2468",3065,90)
    {
     Outlier("General",0.05);
    };
    R_Date("P. 21 Tx-4984",3130,210)
    {
     Outlier("General",0.05);
    };
    R_Date("P. 33 Beta-47965",3180,70)
    {
     Outlier("General",0.05);
    };
    R_Date("P. 34 Beta-71858",3200,70)
    {
     Outlier("General",0.05);
    };
    R_Date("P. 35 Beta-71859",3180,130)
    {
     Outlier("General",0.05);
```

```
};
R_Date("P. 42 Beta-153803",2970,40)
{
 Outlier("General",0.05);
};
R_Date("P. 43 Beta-153804",3040,70)
{
 Outlier("General",0.05);
};
R_Date("P. 46 Beta-177759",3180,40)
{
 Outlier("General",0.05);
};
R_Date("P. 48 Beta-197514",3070,40)
{
 Outlier("General",0.05);
};
R_Date("P. 49 Beta-207440",3060,40)
{
 Outlier("General",0.05);
};
R_Date("P. 50 Beta-207441",3660,40)
{
 Outlier("General",0.05);
};
R_Date("P. 52 Beta-230783",3120,40)
{
 Outlier("General",0.05);
```

```
};
R_Date("P. 53 Beta-260708",3100,49)
{
 Outlier("General",0.05);
};
R_Date("P. 54 Beta-274979",3020,40)
{
 Outlier("General",0.05);
};
R_Date("P. 55 Beta-274980",2990,40)
{
 Outlier("General",0.05);
};
R_Date("P. 56 Beta-274981",3050,40)
{
 Outlier("General",0.05);
};
R_Date("P. 57 Beta-330345",3010,30)
{
 Outlier("General",0.05);
};
R_Date("P. 58 Beta-330346",3080,30)
{
 Outlier("General",0.05);
};
R_Date("P. 61 Beta-410558",3180,30)
{
 Outlier("General",0.05);
```

```
};
R_Date("P. 62 Beta-410559",2990,30)
{
 Outlier("General",0.05);
};
R_Date("P. 63 Beta-473140",3150,30)
{
 Outlier("General",0.05);
};
R_Date("P. 64 Beta-473141",3070,30)
{
 Outlier("General",0.05);
};
R_Date("P. 66 Beta-473143",3090,30)
{
 Outlier("General",0.05);
};
R_Date("P. 68 Beta-473145",3110,30)
{
 Outlier("General",0.05);
};
R_Date("P. 69 Beta-503112",3270,30)
{
 Outlier("General",0.05);
};
R_Date("P. 70 Beta-504188",3290,30)
{
 Outlier("General",0.05);
```

```
};
R_Date("P. 71 Wk-10963",3123,59)
{
 Outlier("General",0.05);
};
R_Date("P. 72 Wk-11282",3303,47)
{
 Outlier("General",0.05);
};
R_Date("P. 73 Wk-11283",3264,47)
{
 Outlier("General",0.05);
};
R_Date("P. 76 OS-136339",3120,25)
{
 Outlier("General",0.05);
};
R_Date("P. 77 OS-136340",3060,30)
{
 Outlier("General",0.05);
};
R_Date("P. 78 OS-136341",3060,20)
{
 Outlier("General",0.05);
};
R_Date("P. 79 OS-136342",3070,20)
{
 Outlier("General",0.05);
```

```
  };
  R_Date("P. 80 OS-136942",3240,30)
  {
   Outlier("General",0.05);
  };
  R_Date("P. 81 OS-167106",3230,45)
  {
   Outlier("General",0.05);
  };
 };
 Boundary("End 1");
};
};
```

1j. Model 4 SITE

```
Plot()
 {
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Outlier_Model("General",T(5),U(0,4),"t");
  Sequence()
  {
   Boundary("Start 1");
   Phase("1")
   {
    R_Date("P. 10 UGa-2468",3065,90)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 21 Tx-4984",3130,210)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 33 Beta-47965",3180,70)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 34 Beta-71858",3200,70)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 35 Beta-71859",3180,130)
    {
```

```
 Outlier("Charcoal", 1);
};
R_Date("P. 42 Beta-153803",2970,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 43 Beta-153804",3040,70)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 46 Beta-177759",3180,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 48 Beta-197514",3070,40)
{
 Outlier("General",0.05);
};
R_Date("P. 49 Beta-207440",3060,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 52 Beta-230783",3120,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 53 Beta-260708",3100,49)
{
```

```
 Outlier("General",0.05);
};
R_Date("P. 54 Beta-274979",3020,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 55 Beta-274980",2990,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 56 Beta-274981",3050,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 57 Beta-330345",3010,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 58 Beta-330346",3080,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 61 Beta-410558",3180,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 62 Beta-410559",2990,30)
{
```

```
 Outlier("General",0.05);
};
R_Date("P. 63 Beta-473140",3150,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 64 Beta-473141",3070,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 66 Beta-473143",3090,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 68 Beta-473145",3110,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 69 Beta-503112",3270,30)
{
 Outlier("General",0.05);
};
R_Date("P. 70 Beta-504188",3290,30)
{
 Outlier("General",0.05);
};
R_Date("P. 71 Wk-10963",3123,59)
{
```

```
 Outlier("Charcoal", 1);
};
R_Date("P. 72 Wk-11282",3303,47)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 73 Wk-11283",3264,47)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 76 OS-136339",3120,25)
{
 Outlier("General",0.05);
};
R_Date("P. 77 OS-136340",3060,30)
{
 Outlier("General",0.05);
};
R_Date("P. 78 OS-136341",3060,20)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 79 OS-136342",3070,20)
{
 Outlier("General",0.05);
};
R_Date("P. 80 OS-136942",3240,30)
{
```

```
   Outlier("Charcoal", 1);
  };
  R_Date("P. 81 OS-167106",3230,45)
  {
   Outlier("General",0.05);
  };
 };
 Boundary("End 1");
};
};
```

1k. Model 5: Poverty Point Site Earthwork Construction TPQ

```
Plot()
 {
  Outlier_Model("General",T(5),U(0,4),"t");
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
   Boundary("Start 1");
   Phase("1")
   {
    R_Date("P. 62 Beta-410559",2960,30)
    {
     Outlier("General",0.05);
    };
    R_Date("P. 55 Beta-274980",2990,40)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 54 Beta-274979",3020,40)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 43 Beta-153804",3040,70)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 56 Beta-274981",3050,40)
    {
```

```
 Outlier("Charcoal", 1);
};
R_Date("P. 78 OS-136341",3060,20)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 49 Beta-207440",3060,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 10 UGa-2468",3065,90)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 48 Beta-197514",3070,40)
{
 Outlier("General",0.05);
};
R_Date("P. 64 Beta-473141",3070,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 66 Beta-473143",3090,30)
{
 Outlier("Charcoal", 1);
};
};
Boundary("End 1");
```

```
  };
};
```

11. CQL codes associated with Figure 6.

a. Model 4 CULTURE with KDE plot

```
Plot()
 {
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Outlier_Model("General",T(5),U(0,4),"t");
  Sequence()
  {
   Boundary("Start 1");
   KDE_Plot("Phase 1")
   {
    color="Blue";
    R_Date("P. 10 UGa-2468",3065,90)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 21 Tx-4984",3130,210)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 33 Beta-47965",3180,70)
    {
     Outlier("Charcoal", 1);
    };
    R_Date("P. 34 Beta-71858",3200,70)
    {
     Outlier("Charcoal", 1);
    };
```

```
R_Date("P. 35 Beta-71859",3180,130)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 42 Beta-153803",2970,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 43 Beta-153804",3040,70)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 46 Beta-177759",3180,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 48 Beta-197514",3070,40)
{
 Outlier("General",0.05);
};
R_Date("P. 49 Beta-207440",3060,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 52 Beta-230783",3120,40)
{
 Outlier("Charcoal", 1);
};
```

```
R_Date("P. 53 Beta-260708",3100,49)
{
 Outlier("General",0.05);
};
R_Date("P. 54 Beta-274979",3020,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 55 Beta-274980",2990,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 56 Beta-274981",3050,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 57 Beta-330345",3010,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 58 Beta-330346",3080,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 61 Beta-410558",3180,30)
{
 Outlier("Charcoal", 1);
};
```

```
R_Date("P. 62 Beta-410559",2990,30)
{
 Outlier("General",0.05);
};
R_Date("P. 63 Beta-473140",3150,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 64 Beta-473141",3070,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 66 Beta-473143",3090,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 68 Beta-473145",3110,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 69 Beta-503112",3270,30)
{
 Outlier("General",0.05);
};
R_Date("P. 70 Beta-504188",3290,30)
{
 Outlier("General",0.05);
};
```

```
R_Date("P. 71 Wk-10963",3123,59)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 72 Wk-11282",3303,47)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 73 Wk-11283",3264,47)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 76 OS-136339",3120,25)
{
 Outlier("General",0.05);
};
R_Date("P. 77 OS-136340",3060,30)
{
 Outlier("General",0.05);
};
R_Date("P. 78 OS-136341",3060,20)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 79 OS-136342",3070,20)
{
 Outlier("General",0.05);
};
```

```
R_Date("P. 80 OS-136942",3240,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 81 OS-167106",3230,45)
{
 Outlier("General",0.05);
};
R_Date("M. 2 Beta-128951",3570,40)
{
 Outlier("Charcoal", 1);
};
R_Date("M. 4 Beta-128953",3250,50)
{
 Outlier("Charcoal", 1);
};
R_Date("M. 5 Beta-128954",3340,40)
{
 Outlier("Charcoal", 1);
};
R_Date("JC. 1 A-4176",3440,90)
{
 Outlier("General",0.05);
};
R_Date("JC. 2 Beta-9580",3040,100)
{
 Outlier("General",0.05);
};
```

```
R_Date("JC. 3 Beta-9581",3170,90)
{
 Outlier("General",0.05);
};
R_Date("CL. 1 Beta-453790",3370,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 4 Beta-453794",3020,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 5 Beta-453795",3020,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 6 Beta-453796",3090,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 7 Beta-454908",3010,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 8 Beta-454909",2970,30)
{
 Outlier("Charcoal", 1);
};
```

```
R_Date("CL. 9 Beta-454910",3150,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 10 Beta-454911",3000,30)
{
 Outlier("Charcoal", 1);
};
R_Date("CL. 11 Beta-454912",3030,30)
{
 Outlier("Charcoal", 1);
};
R_Date("LE. 1 Beta 169320",2970,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 8 Beta-236318",3170,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 9 Beta-235218",3260,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 10 Beta-253774",3660,40)
{
 Outlier("Charcoal", 1);
};
```

```
R_Date("J. 11 Beta-253789",3120,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 13 Beta-252854",3220,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 14 Beta-263420",3280,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 15 Beta-263421",3220,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 17 Beta-264059",3340,40)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 18 Beta-555137",3260,30)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 19 UGA-38991",3150,20)
{
 Outlier("General",0.05);
};
```

```
R_Date("J. 20 UGA-38992",3150,20)
{
 Outlier("General",0.05);
};
R_Date("J. 21 UGA-38993",3110,20)
{
 Outlier("General",0.05);
};
R_Date("J. 22 UGA-41847",3910,70)
{
 Outlier("General",0.05);
};
R_Date("J. 23 UGA-41848",3200,25)
{
 Outlier("General",0.05);
};
R_Date("J. 24 AA-83901",3416,64)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 25 AA-83903",3201,39)
{
 Outlier("Charcoal", 1);
};
R_Date("J. 26 AA-83902",3585,40)
{
 Outlier("Charcoal", 1);
};
```

```
   R_Date("J. 27 OS-151671",3170,20)
   {
    Outlier("General",0.05);
   };
   R_Date("J. 28 OS-159306",3190,20)
   {
    Outlier("General",0.05);
   };
   R_Date("J. 30 OS-160358",3160,20)
   {
    Outlier("General",0.05);
   };
   R_Date("J. 31 OS-165296",3170,20)
   {
    Outlier("Charcoal", 1);
   };
  };
  Boundary("End 1");
 };
};
```

b. Model 4 SITE w/ KDE plot

```
Plot()
 {
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Outlier_Model("General",T(5),U(0,4),"t");
  Sequence()
  {
```

```
Boundary("Start 1");
KDE_Plot("Poverty Point Site Occupation")
{
 color="Yellow";
 R_Date("P. 10 UGa-2468",3065,90)
 {
  Outlier("Charcoal", 1);
 };
 R_Date("P. 21 Tx-4984",3130,210)
 {
  Outlier("Charcoal", 1);
 };
 R_Date("P. 33 Beta-47965",3180,70)
 {
  Outlier("Charcoal", 1);
 };
 R_Date("P. 34 Beta-71858",3200,70)
 {
  Outlier("Charcoal", 1);
 };
 R_Date("P. 35 Beta-71859",3180,130)
 {
  Outlier("Charcoal", 1);
 };
 R_Date("P. 42 Beta-153803",2970,40)
 {
  Outlier("Charcoal", 1);
 };
```

```
R_Date("P. 43 Beta-153804",3040,70)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 46 Beta-177759",3180,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 48 Beta-197514",3070,40)
{
 Outlier("General",0.05);
};
R_Date("P. 49 Beta-207440",3060,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 52 Beta-230783",3120,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 53 Beta-260708",3100,49)
{
 Outlier("General",0.05);
};
R_Date("P. 54 Beta-274979",3020,40)
{
 Outlier("Charcoal", 1);
};
```

```
R_Date("P. 55 Beta-274980",2990,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 56 Beta-274981",3050,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 57 Beta-330345",3010,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 58 Beta-330346",3080,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 61 Beta-410558",3180,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 62 Beta-410559",2990,30)
{
 Outlier("General",0.05);
};
R_Date("P. 63 Beta-473140",3150,30)
{
 Outlier("Charcoal", 1);
};
```

```
R_Date("P. 64 Beta-473141",3070,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 66 Beta-473143",3090,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 68 Beta-473145",3110,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 69 Beta-503112",3270,30)
{
 Outlier("General",0.05);
};
R_Date("P. 70 Beta-504188",3290,30)
{
 Outlier("General",0.05);
};
R_Date("P. 71 Wk-10963",3123,59)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 72 Wk-11282",3303,47)
{
 Outlier("Charcoal", 1);
};
```

```
R_Date("P. 73 Wk-11283",3264,47)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 76 OS-136339",3120,25)
{
 Outlier("General",0.05);
};
R_Date("P. 77 OS-136340",3060,30)
{
 Outlier("General",0.05);
};
R_Date("P. 78 OS-136341",3060,20)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 79 OS-136342",3070,20)
{
 Outlier("General",0.05);
};
R_Date("P. 80 OS-136942",3240,30)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 81 OS-167106",3230,45)
{
 Outlier("General",0.05);
};
```

```
  };
  Boundary("End 1");
 };
};
```

c. Model 5 Earthworks TPQ w/ KDE plot

```
Plot()
{
 Outlier_Model("General",T(5),U(0,4),"t");
 Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
 Sequence()
 {
  Boundary("Start 1");
  color="Red";
  KDE_Plot("Poverty Point Earthwork Construction TPQ")
  {
   color="Red";
   R_Date("P. 62 Beta-410559",2960,30)
   {
    Outlier("General",0.05);
   };
   R_Date("P. 55 Beta-274980",2990,40)
   {
    Outlier("Charcoal", 1);
   };
   R_Date("P. 54 Beta-274979",3020,40)
   {
    Outlier("Charcoal", 1);
```

```
};
R_Date("P. 43 Beta-153804",3040,70)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 56 Beta-274981",3050,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 78 OS-136341",3060,20)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 49 Beta-207440",3060,40)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 10 UGa-2468",3065,90)
{
 Outlier("Charcoal", 1);
};
R_Date("P. 48 Beta-197514",3070,40)
{
 Outlier("General",0.05);
};
R_Date("P. 64 Beta-473141",3070,30)
{
 Outlier("Charcoal", 1);
```

```
  };
  R_Date("P. 66 Beta-473143",3090,30)
  {
   Outlier("Charcoal", 1);
  };
 };
 Boundary("End 1");
};
};
```

ld. Jaketown SITE model used to produce Figure 8, summarized using the KDE_Plot function

```
Plot()
{
 Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
 Outlier_Model("General",T(5),U(0,4),"t");
 Sequence(Occupation)
 {
  Boundary("Start 1");
  KDE_Plot("JT Initial Occupation")
  {
   R_Date("7. B-253774", 3660, 40)
   {
    Outlier("Charcoal", 1);
   };
   R_Date("8. UGA-41847", 3910, 70)
   {
    Outlier("General", 0.05);
   };
```

```
 R_Date("16. AA-83901", 3416, 64)
 {
  Outlier("Charcoal", 1);
 };
 R_Date("18. AA-83902", 3585, 40)
 {
  Outlier("Charcoal", 1);
 };
 R_Date("23. B-154428", 3630, 80)
 {
  Outlier("General", 0.05);
 };
};
Boundary("End 1");
Boundary("Start 2");
KDE_Plot("JT Intensive Occupation")
{
 R_Date("22. B-157421", 3350, 40)
```

```
 {
  Outlier("Charcoal", 1);
 };
 R_Date("15. B-555137", 3260, 30)
 {
  Outlier("General", 0.05);
 };
 R_Date("31. OS-160358", 3160, 20)
 {
  Outlier("General", 0.05);
 };
 R_Date("24. OS-159306", 3190, 20)
 {
  Outlier("General", 0.05);
 };
};
Boundary("End 2");
Boundary("Start 3");
```

```
KDE_Plot("JT Earthwork Construction")
{
 R_Date("12. B-264059", 3340, 40)
 {
  Outlier("Charcoal", 1);
 };
 R_Date("11. B-263421", 3220, 40)
 {
  Outlier("Charcoal", 1);
 };
 R_Date("21. B-235218", 3260, 40)
 {
  Outlier("Charcoal", 1);
 };
 R_Date("20. B-156646", 3150, 50)
 {
  Outlier("Charcoal", 1);
 };
```

```
R_Date("6. UGA-38991", 3150, 20)
{
 Outlier("General", 0.05);
};
R_Date("5. UGA-38992", 3150, 20)
{
 Outlier("General", 0.05);
};
R_Date("4. B-252854", 3220, 40)
{
 Outlier("Charcoal", 1);
};
R_Date("14. OS-151671", 3170, 20)
{
 Outlier("General", 0.05);
};
R_Date("19. B-236318", 3170, 40)
{
```

```
 Outlier("Charcoal", 1);
};
R_Date("17. AA-83903", 3201, 39)
{
 Outlier("Charcoal", 1);
};
R_Date("10. B-263420", 3280, 40)
{
 Outlier("Charcoal", 1);
};
R_Date("3. UGA-38993", 3110, 20)
{
 Outlier("General", 0.05);
};
R_Date("2. B-253789 ", 3120, 40)
{
 Outlier("Charcoal", 1);
};
```

```
 R_Date("13. UGA-41848", 3200, 25)

 {

  Outlier("General", 0.05);

 };

};

Boundary("End 3");

};

Span("JT Occupation");

};
```

2. Supplemental Information Tables

Table SI1

Table SI2

Table SI3

Table SI1. Radiocarbon Dates Used in this Analysis. Complete Details for Each Date are in the References Listed.

Site Name	Site No.	Lab No.	Radiocarbon Age (Years BP)[1]	Material Dated	$\delta^{13}C_{0/00}$	Ranking[2]	Reference	**Context**
Poverty Point	16WC5	L-195	2860 ± 100	charcoal	na[3]	4	Ford & Webb 1956:Table 9	Ridge N4, Trench 1, "from fireplace 18 inches beneath surface"
Poverty Point	16WC5	L-272	2700 ± 100	charcoal	na	4	Ford & Webb 1956:Table 9	Mound B
Poverty Point	16WC5	M-403	2850 ± 250	charcoal	na	4	Ford & Webb 1956:Table 9	Mound B
Poverty Point	16WC5	O-66	3150 ± 120	charcoal	na	4	Ford & Webb 1956:Table 9	Mound B
Poverty Point	16WC5	Schatzman A	2685 ± 210	charcoal	na	4	Ford & Webb 1956:Table 9	Mound B
Poverty Point	16WC5	Schatzman B	2339 ± 200	charcoal	na	4	Ford & Webb 1956:Table 9	Mound B
Poverty Point	16WC5	M-2154	2820 ± 150	charcoal (*Arundinaria sp*.)	na	4	Crane & Griffin 1972:212	Ridge N2, burned structure on a pre-construction level
Poverty Point	16WC5	LSU-73-057	2815 ± 255	no data	na	4	Webb 1982:Table 1	no context information available
Poverty Point	16WC5	UGa-1697	2845 ± 115	charcoal	na	3	Haag 1990	Plaza, XU 4, pit at base of midden (fea. 18?), 70 cm bs?
Poverty Point	16WC5	UGa-2468	3065 ± 90	charcoal	na	2	Woodiel 1990	Plaza, N4E12, fea. 11
Poverty Point	16WC5	Tx-680	3000 ± 90	charcoal (*Arundinaria sp*.)	na	4	Webb 1982:Table 1	Ridge N2, a burned structure on a pre-construction level
Poverty Point	16WC5	Tx-4965	3110 ± 90	charcoal?	na	4	Greene 1985:28, 30, Table 1	Deep Six; N44 E50, Str. IIA, Fea. 9
Poverty Point	16WC5	Tx-4966	2490 ± 80	charcoal?	na	4	Greene 1985:28, 30, Table 1	Deep Six; N46 E53, Str. IIIA, Fea. 14
Poverty Point	16WC5	Tx-4967a	4960 ± 170	charcoal	na	4	Greene 1985:28, 30, Table 1	Deep Six; N48 E54, Str. IIIA
Poverty Point	16WC5	Tx-4967b	4350 ± 240	charcoal	na	4	Greene 1985:28, 30, Table 1	Deep Six; N48 E54, Str. IIIA
Poverty Point	16WC5	Tx-4968	3400 ± 100	charcoal?	na	4	Greene 1985:28, 30, Table 1	Deep Six; N46 E53, Str. IIIA
Poverty Point	16WC5	Tx-4969	4960 ± 80	charcoal	na	4	Greene 1985:28, 30, Table 1	Deep Six; N45 E55, Str. IVA
Poverty Point	16WC5	Tx-4970	3800 ± 70	charcoal?	na	4	Greene 1985:28, 30, Table 1	Deep Six; N47.80 E56, Str. IVA
Poverty Point	16WC5	Tx-4974	4850 ± 110	charcoal?	na	4	Greene 1985:28, 30, Table 1	Deep Six; N45 E55, Str. IVA
Poverty Point	16WC5	Tx-4983	3340 ± 60	charcoal	na	3	Gibson 1984:112-113	Ridge N4, Double Deep Six, "203cm below data in Unit G"
Poverty Point	16WC5	Tx-4984	3130 ± 210	charcoal	na	2	Gibson 1984:112-113	Ridge N4, Double Deep Six, "175cm below data in Unit F"
Poverty Point	16WC5	Tx-5324	2970 ± 130	charcoal	na	4	Gibson 1987: 148, 150	Ridge W3, unit W3A
Poverty Point	16WC5	Tx-5325	3760 ± 720	charcoal	na	3	Gibson 1987:150	Ridge W3, unit W3X, zone 3A, 85-87 cm bgs
Poverty Point	16WC5	Tx-5326	2690 ± 650	charcoal	na	4	Gibson 1987:110	Ridge SW4, unit N4730 5130E, 52-62cm bgs
Poverty Point	16WC5	Tx-5327	2580 ± 730	charred material	na	4	Gibson 1987:110	Ridge SW4, 4705N 5130E, 109 cm bgs
Poverty Point	16WC5	Tx-5328	2860 ± 200	charred material	na	4	Gibson 1987:64	Mound D, 4926N 5403E; Zone IIIc
Poverty Point	16WC5	Tx-5442	3230 ± 70	charcoal	na	4	Gibson 1993:64-65	Ridge W4, 5281N E4743E, level 10
Poverty Point	16WC5	Tx-5443	3080 ± 240	charcoal	na	4	Gibson 1993:64	Ridge W3, unit 5276N 4781E, level 9, 80-90 cm bgs
Poverty Point	16WC5	Tx-5444	3220 ± 80	charcoal	na	4	Gibson 1993:64	Ridge W3, unit 5276N 4787E, 170-180 cm bgs
Poverty Point	16WC5	Tx-5445	3270 ± 80	charcoal	na	4	Gibson 1993:63-64	Ridge W3, unit 5276N 4787E, level 15, 140-150 cmbgs
Poverty Point	16WC5	Tx-5446	3080 ± 70	charcoal	na	4	Gibson 1993:65	Ridge W4, unit 5281N 4737E, level 9, 90 cmbgs
Poverty Point	16WC5	Tx-8440	2657 ± 44	soil organic matter	-24.3	3	Gibson 1997:46, Table 6	Ridge N3, unit 5660N 5163E, bulk soil humates, 85-90 cm bgs
Poverty Point	16WC5	Beta-47965	3180 ± 70	charcoal	na	2	Miller 1997:31-32	Ridge N2, Unit H, Stratum 6, Fea. 15
Poverty Point	16WC5	Beta-71858	3200 ± 70	charcoal	na	2	Gibson 1994:28-30	Ridge N4, unit 5691N 5181E, fea. 3, 140-152 cm bgs
Poverty Point	16WC5	Beta-71859	3180 ± 130	charcoal	na	2	Gibson 1994:28-30	Ridge N4, unit 5689N 5181E, 200-210 cm bgs
Poverty Point	16WC5	Beta-72595	3140 ± 80	charcoal	-26.4	3	Gibson 1994:47	Ridge S/SW 6, 4642.2N 5223E, Fea. 4
Poverty Point	16WC5	Beta-75876	3400 ± 130	uncertain	na	4	Gibson 1994:47	Ridge S/SW6, "Saunders Feature 1"
Poverty Point	16WC5	Beta-94168	3060 ± 60	charcoal	-27.9	4	Gibson 1997:47	Ridge N3, unit 5653N 5163E, 60-70 cm bgs
Poverty Point	16WC5	Beta-122916	3160 ± 140	unknown (charcoal?)	-25.6	4	Connolly 2001:64, table 8	Ridge W3, unit 5228N 4799E, Level 11, 100-110 cm bgs
Poverty Point	16WC5	Beta-122917	3040 ± 50	unknown (charcoal?)	-27.8	4	Connolly 2001:64, table 8	Ridge W3, unit 5228N 4799E, Level 13A, 120 cm bgs
Poverty Point	16WC5	Beta-153802	3110 ± 40	charred material	-24.8	3	Connolly 2002:183-184	Ridge NW1, unit 40N 15E, Fea. 6
Poverty Point	16WC5	Beta-153803	2970 ± 40	charred material	-24.8	2	Connolly 2002:Table 58	Ridge NW1, unit 45N 15E, Fea. 27
Poverty Point	16WC5	Beta-153804	3040 ± 70	charred material	na	2	Connolly 2002:Table 58	Ridge NW1, unit 50N 15E, Fea. 86
Poverty Point	16WC5	Beta-154367	3000 ± 40	charred material	-26.2	3	Connolly 2001:48-55	Ridge 3S, 4833.87N 5383.97E, str. 4Ab, 226-280 cm bgs
Poverty Point	16WC5	Beta-175059	3340 ± 40	charred material	-27.2	3	Kidder et al. 2004:Table 1	Mound B, Core B-5, Str. K
Poverty Point	16WC5	Beta-177759	3180 ± 40	charred material	-26.5	2	Connolly 2003:48, Appendix C	Ridge SW1, unit 4969N 4984.75E, TU2, Fea. 2, 60 cm bgs
Poverty Point	16WC5	Beta-177760	3120 ± 40	charred material	-26.4	3	Connolly 2003:48, Appendix C	Ridge SW1, unit 4975.06N 4985.63E, 150 cm bd

Table SI1. Radiocarbon Dates Used in this Analysis. Complete Details for Each Date are in the References Listed.

Site Name	Site No.	Lab No.	Radiocarbon Age (Years BP)[1]	Material Dated	$\delta^{13}C_{0/00}$	Ranking[2]	Reference	**Context**
Poverty Point	16WC5	Beta-197514	3070 ± 40	uncarbonized root	-21.7	1	Ortmann & Kidder 2013:Table 1	Mound A, submound Ab horizon
Poverty Point	16WC5	Beta-207440	3060 ± 40	charcoal	-23.6	2	Ortmann & Kidder 2013:Table 1	Mound A, submound Ab horizon
Poverty Point	16WC5	Beta-207441	3660 ± 40	charcoal (twig end)	-22.6	1	Ortmann & Kidder 2013:Table 1	Mound A, submound Ab horizon
Poverty Point	16WC5	Beta-219671	2980 ± 40	charcoal	-27.9	4	Ortmann & Kidder 2013:Table 1	Mound A, submound Ab horizon
Poverty Point	16WC5	Beta-230783	3120 ± 40	charcoal (*Quercus sp*.)	-25.7	2	Greenlee 2007:21	Ridge N3, tram road trench, Level 7B, Fea. 1
Poverty Point	16WC5	Beta-260708	3100 ± 49	charcoal (twig)	-25.7	1	Greenlee 2010:69	Plaza, Circle 26, posthole, fea. 8/19, 137 cm bgs
Poverty Point	16WC5	Beta-274979	3020 ± 40	charcoal (*Quercus sp*.)	-23.7	2	Greenlee 2010:70	Plaza, Block 2, circle 14, Fea 7, pit fill, 96 cm bgs
Poverty Point	16WC5	Beta-274980	2990 ± 40	charcoal (*Quercus sp*.)	-25.2	2	Greenlee 2010:71	Plaza, Block 4, circle 10 Fea 11, post pit fill, 149 cm bgs
Poverty Point	16WC5	Beta-274981	3050 ± 40	charcoal (*Quercus*?)	-26.2	2	Greenlee 2010:72	Plaza, Block 1, Circle 12, Fea 18, post pit fill, 128.5 cm bgs
Poverty Point	16WC5	Beta-330345	3010 ± 30	charred material	-25.5	2	Greenlee 2012:78-79	Plaza, Block 4. Feature 1
Poverty Point	16WC5	Beta-330346	3080 ± 30	charred material	-27.5	2	Greenlee 2012:78-79	Plaza, Block 4. Feature 2
Poverty Point	16WC5	Beta-359178	3090 ± 30	charcoal	-25.7	4	Greenlee 2013:50-51	Mound F, Core 1, 2Ab, 127-150 cm bgs
Poverty Point	16WC5	Beta-359179	2970 ± 30	charcoal	-29.8	4	Greenlee 2013:50-51	Mound F, 2Ab, 120–145 cm bgs
Poverty Point	16WC5	Beta-410558	3180 ± 30	charcoal	-26.9	2	Greenlee 2015:27-28	Mound F, Unit 1, Lvl 8, midden/2Ab, 65 cm bgs
Poverty Point	16WC5	Beta-410559	2990 ± 30	UID charred seed fragment	-23	1	Greenlee 2015:27-28	Mound F, Unit 1, Lvl 9, midden/2Ab, 71 cm bgs
Poverty Point	16WC5	Beta-473140	3150 ± 30	charcoal	-25.9	2	Greenlee 2017:Table 4	West Plaza Rise; sample from the C5 horizon, 77-91 cm bgs
Poverty Point	16WC5	Beta-473141	3070 ± 30	charcoal (*Quercus sp.*)	-25.6	2	Greenlee 2017:Table 4	Causeway; Core 17, 2A2b, 186-191 cm bgs
Poverty Point	16WC5	Beta-473142	3140 ± 30	charcoal	na	3	Greenlee 2017:Table 4	Mound E ramp; Core 10, 2Ab, 213-241 cm bgs
Poverty Point	16WC5	Beta-473143	3090 ± 30	charcoal (*Quercus sp*.)	-26	2	Greenlee 2017:Table 4	Mound E ridge; Core 9, 2Ab
Poverty Point	16WC5	Beta-473144	3200 ± 30	charcoal	-30.3	3	Greenlee 2017:Table 4	Ridge 2SW anomaly; Core 4, BA 72-78 cm bgs
Poverty Point	16WC5	Beta-473145	3110 ± 30	charcoal	-26.1	2	Greenlee 2017:Table 4	Mound E ridge; BC & E' horizon, 63-72 cm bgs
Poverty Point	16WC5	Beta-503112	3270 ± 30	*Diospyros virginiana* seed	-28.3	1	Hargrave et al. 2021: Table 1	Plaza, Circle 12, Fea. 23, 92-112 cm bgs
Poverty Point	16WC5	Beta-504188	3290 ± 30	*Juglans nigra* shell	-23.2	1	Hargrave et al. 2021: Table 1	Plazza, Circle 12, Fea. 30, 130-140 cm bgs
Poverty Point	16WC5	Wk-10963	3123 ± 59	charcoal	-26.2	2	Ortmann 2007:137-138	Mound D, unit 4952.18N 5416.42E, feature 5
Poverty Point	16WC5	Wk-11282	3303 ± 47	charcoal	-25.1	2	Ortmann 2007:137	Mound D, unit 4952.18N 5416.42E
Poverty Point	16WC5	Wk-11283	3264 ± 47	charcoal	-26.5	2	Ortmann 2010:Table 1	Mound C, unit 5360.32N 5130.21E
Poverty Point	16WC5	Wk-11284	3386 ± 49	charcoal	-26.3	3	Ortmann 2010:Table 1	Mound C, unit5360.32N 5130.21E
Poverty Point	16WC5	Wk-11285	3068 ± 47	charcoal	-24	3	Ortmann 2010:Table 1	Mound C, unit 5360.39N 5131.15E; Feature 22
Poverty Point	16WC5	OS-136339	3120 ± 25	UID nutshell	na	2	Kidder et al. 2021:Table 1	Ridge W3, unit 5276N 4790E, ridge fill
Poverty Point	16WC5	OS-136340	3060 ± 30	UID nutshell	na	2	Kidder et al. 2021:Table 1	Ridge W3, unit 5276N 4790E, ridge fill
Poverty Point	16WC5	OS-136341	3060 ± 20	charcoal	na	2	Kidder et al. 2021:Table 1	Ridge W3, unit 5276N 4790E, preconstruction horizon
Poverty Point	16WC5	OS-136342	3070 ± 20	nutshell (*Carya*?)	na	2	Kidder et al. 2021:Table 1	Ridge W3, unit 5276N 4790E, ridge fill
Poverty Point	16WC5	OS-136942	3240 ± 30	charcoal	na	2	Kidder et al. 2021:Table 1	Ridge W3, unit 5276N 4790E, ridge fill
Poverty Point	16WC5	OS-167106	3230 ± 45	*fimbristylis* seed	na	1	G. Ward n.d. (unpublished)	Mound A, submound Ab horizon
McGuffee	16CT17	Beta-128950	3250 ± 50	soil organic matter	-26.3	4	D. Jones et al. 2000:66-68	TU 4, Fea. 2, top midden
McGuffee	16CT17	Beta-128951	3570 ± 40	charred bone	-22.8	2	D. Jones et al. 2000:66-68	TU 3, from lower midden
McGuffee	16CT17	Beta-128952	3210 ± 60	soil organic matter	-26.1	4	D. Jones et al. 2000:66-68	TU 3, lower midden
McGuffee	16CT17	Beta-128953	3250 ± 50	charcoal	-24.3	2	D. Jones et al. 2000:66-68	TU 4, lower midden
McGuffee	16CT17	Beta-128954	3340 ± 40	charcoal	-24.9	2	D. Jones et al. 2000:66-68	TU 4, lower midden
Cowpen Slough	16CT147	I-13, 821	3410 ± 140	charcoal	na	3	Ramenofsky & Mires 1985:110-113	unit 35S 3.9E
Cowpen Slough	16CT147	I-13, 822	3170 ± 140	charcoal	na	3	Ramenofsky & Mires 1985:110-113	unit 20S 4.01W
Cowpen Slough	16CT147	I-13, 823	3460 ± 90	charcoal	na	3	Ramenofsky & Mires 1985:110-113	unit 16.3S 10.3E, Feature 36
Cowpen Slough	16CT147	I-13, 824	3220 ± 100	charcoal	na	3	Ramenofsky & Mires 1985:110-113	unit 34S 3.8E, Feature 37
Cowpen Slough	16CT147	I-13, 831	2980 ± 140	charcoal	na	3	Ramenofsky & Mires 1985:110-113	unit 34S 4.01E
Cowpen Slough	16CT147	I-13, 832	3490 ± 90	charcoal	na	3	Ramenofsky & Mires 1985:110-113	unit 16.3S 10.3E, Feature 36
Hays Mound	16FR183	UGA-2674	2880 ± 40	charcoal	-17.1	3	Saunders 2008:44-45	center mound core; 3Ab horizon, 224 -264 cm bgs
J.W. Copes	16MA47	AA-4176	3440 ± 90	*Cucurbita sp*. seed	na	1	Jackson 1986:308-310	Feature 41, middle midden units

Table SI1. Radiocarbon Dates Used in this Analysis. Complete Details for Each Date are in the References Listed.

Site Name	Site No.	Lab No.	Radiocarbon Age (Years BP)[1]	Material Dated	$\delta^{13}C_{0/00}$	Ranking[2]	Reference	**Context**
J.W. Copes	16MA47	Beta-9580	3040 ± 100	*Carya sp* . nutshell	na	1	Jackson 1986:308-310	Feature 43, upper midden stratum
J.W. Copes	16MA47	Beta-9581	3170 ± 90	*Quercus sp* . nutshell	na	1	Jackson 1986:308-310	Feature 39, lower silt stratum
Linsley	16OR40	G-577	4440 ± 140	charcoal	na	4	Gagliano & Saucier 1963:326	Buried midden 5.5 - 6.0 ft below sea level
Linsley	16OR40	G-578	3840 ± 130	charcoal	na	4	Gagliano & Saucier 1963:326	Buried midden 5.5-6 ft below sea level
Linsley	16OR40	G-579	3540 ± 120	charcoal	na	4	Gagliano & Saucier 1963:326	Buried midden, 5.5-6.0 ft. below sea level
Linsley	16OR40	G-580	3990 ± 170	*Rangia cuneata* shell	na	4	Gagliano & Saucier 1963:326	Buried midden 6.0-6.5 ft. below sea level
Linsley	16OR40	G-581	4040 ± 140	peat & organic clay	na	4	Gagliano & Saucier 1963:326	16 - 16.5 ft below sea level
Bayou Jasmine	16SJB2	AA-9229	3150 ± 65	cordage	-26.7	4	Kutruff et al. 1995:Table 1	surface find
Claiborne	22HA501	Beta-453790	3370 ± 30	charcoal (soot)	-22.7	2	Sassaman & Brookes 2017:Table 2	Steatite vessel cache; Vessel 1, interior
Claiborne	22HA501	Beta-453793	3820 ± 30	charcoal (soot)	-25.6	2	Sassaman & Brookes 2017:Table 2	Steatite vessel cache; Vessel 5 exterior
Claiborne	22HA501	Beta-453794	3020 ± 30	charcoal (soot)	-24.8	2	Sassaman & Brookes 2017:Table 2	Steatite vessel cache; Vessel 6, exterior
Claiborne	22HA501	Beta-453795	3020 ± 30	charcoal (soot)	-24.7	2	Sassaman & Brookes 2017:Table 2	Steatite vessel cache; Vessel 7, exterior
Claiborne	22HA501	Beta-453796	3090 ± 30	charcoal (soot)	-25	2	Sassaman & Brookes 2017:Table 2	Steatite vessel cache; Vessel 11, exterior
Claiborne	22HA501	Beta-454908	3010 ± 30	charcoal (soot)	-26.3	2	Sassaman & Brookes 2017:Table 2	Steatite vessel cache; Vessel 6, interior
Claiborne	22HA501	Beta-454909	2970 ± 30	charcoal (soot)	-27	2	Sassaman & Brookes 2017:Table 2	Steatite vessel cache; Vessel 7, interior
Claiborne	22HA501	Beta-454910	3150 ± 30	charcoal (soot)	-26.1	2	Sassaman & Brookes 2017:Table 2	Steatite vessel cache; Vessel 8, exterior
Claiborne	22HA501	Beta-454911	3000 ± 30	charcoal (soot)	-26.3	2	Sassaman & Brookes 2017:Table 2	Steatite vessel cache; Vessel 11, interior
Claiborne	22HA501	Beta-454912	3030 ± 30	charcoal (soot)	-25.4	2	Sassaman & Brookes 2017:Table 2	Steatite vessel cache; Vessel 12, exterior
Claiborne	22HA501	UGa-1693	3385 ± 140	charcoal	na	3	Bruseth 1991:Table 2	unit 2N4E
Claiborne	22HA501	I-3705	3100 ± 100	charcoal (?)	na	4	Gagliano & Webb 1970:69	"a sample from near the base of the Claiborne midden"
Claiborne	22HA501	TX-1403	3990 ± 80	unknown	na	4	Webb 1982:Table 1	No context given
Claiborne	22HA501	TX-1404	3470 ± 160	unknown	na	4	Webb 1982:Table 1	No context given
Claiborne	22HA501	Uga-359	3175 ± 140	charcoal	na	3	upublished; Miss. State archives	unit 980N 580E, level III
Cederland	22HA506	G-561	3200 ± 130	charcoal	na	4	Gagliano & Webb 1970:69	"from the upper level of the Cedarland Site"
Teoc Creek	22CR504	M-2393	3400 ± 160	charcoal	na	4	Connoway et al. 1977:Table 9	unit 0-10E, Level 2
Teoc Creek	22CR504	M-2394	3020 ± 150	charcoal	na	4	Connoway et al. 1977:Table 9	unit 10S-10E, Level 2
Teoc Creek	22CR504	M-2415	3080 ± 150	charcoal	na	4	Connoway et al. 1977:Table 9	unit 0-10E, Level 3
Teoc Creek	22CR504	M-2416	3470 ± 160	charcoal	na	4	Connoway et al. 1977:Table 9	unit 0-10E, Level 4
Teoc Creek	22CR504	M-2412	3600 ± 160	charcoal	na	4	Connoway et al. 1977:Table 9	unit 10S-10E, Level 4
Teoc Creek	22CR504	M-2417	3380 ± 160	charcoal	na	4	Connoway et al. 1977:Table 9	uit 0-10E, Level 5
Teoc Creek	22CR504	M-2413	3210 ± 250	charcoal	na	4	Connoway et al. 1977:Table 9	unit 10S-10E, Level 5
Teoc Creek	22CR504	M-2414	3270 ± 200	charcoal	na	4	Connoway et al. 1977:Table 9	unit 10S-10E, Level 6
Teoc Creek	22CR504	M-2395	3650 ± 160	charcoal and charred seeds	na	4	Connoway et al. 1977:Table 9	"from the deep midden at the west end of the profile trench"
Lake Enterprise	3AS379	Beta 169320	2970 ± 40	charcoal (*Arundinaria sp* .)	-26.7	1	Jeter 2010	Mound, from the "the upper (stratigraphically later) pit feature"
Lake Enterprise	3AS379	Beta 262804	3000 ± 40	charcoal (*Arundinaria sp* .)	-25.3	4	Jeter 2010	Mound, "the stratigraphically lower… pre-mound feature"
Jaketown	22HU505	M-216	2830 ± 300	charcoal	na	3	Ford & Webb 1956:Table 9	Trench 5, square 0-2 m, level U
Jaketown	22HU505	L-114	2350 ± 80	charcoal	na	3	Ford & Webb 1956:Table 9	"Poverty Point cultural deposits immediately above… sand bar"
Jaketown	22HU505	O-41	2560 ± 100	Unidentified shell	na	4	Ford & Webb 1956:Table 9	"from Poverty Point cultural deposits"
Jaketown	22HU505	O-46	2150 ± 110	bone	na	4	Ford & Webb 1956:Table 9	"from Poverty Point cultural deposits"
Jaketown	22HU505	Beta-154428	3630 ± 80	soil organic matter	-23.6	4	Saunders & Allen 2003	Core 1
Jaketown	22HU505	Beta-156646	3150 ± 50	charcoal	-26.8	3	Saunders & Allen 2003	Core 2
Jaketown	22HU505	Beta-157421	3350 ± 40	charcoal	-26.4	3	Saunders & Allen 2003	Core 3
Jaketown	22HU505	Beta-236318	3170 ± 40	charcoal	-25.9	2	Kidder et al. 2017:Table 1	Core 24, Strat. 5, 4Ab
Jaketown	22HU505	Beta-235218	3260 ± 40	charcoal	-27.3	2	Kidder et al. 2017:Table 1	Core 24, Str. 21, 312 cmbs
Jaketown	22HU505	Beta-253774	3660 ± 40	charcoal	-27	2	Kidder et al. 2017:Table 1	unit J100, pit at base of PP midden
Jaketown	22HU505	Beta-253789	3120 ± 40	charcoal	na	2	Kidder et al. 2017:Table 1	unit J100, upper PP midden
Jaketown	22HU505	Beta-252854	3220 ± 40	charcoal	-26.5	2	Kidder et al. 2017:Table 1	unit J100, upper basal PP midden

Table SI1. Radiocarbon Dates Used in this Analysis. Complete Details for Each Date are in the References Listed.

Site Name	Site No.	Lab No.	Radiocarbon Age (Years BP)[1]	Material Dated	$\delta^{13}C_{0/00}$	Ranking[2]	Reference	**Context**
Jaketown	22HU505	Beta-263420	3280 ± 40	charcoal	-23.7	2	Kidder et al. 2017:Table 1	unit J103, Upper surface PP earthwork
Jaketown	22HU505	Beta-263421	3220 ± 40	charcoal	-27.1	2	Kidder et al. 2017:Table 1	unit J103, bottom PP midden
Jaketown	22HU505	Beta-264059	3340 ± 40	charcoal	-23.4	2	Kidder et al. 2017:Table 1	unit J103, 353 cmbs
Jaketown	22HU505	Beta-555137	3260 ± 30	soot (charcoal)	-25.2	2	Ward et al. 2022:Table 1	unit J103, steatite sherd
Jaketown	22HU505	UGA-38991	3150 ± 20	*Diospyros virginiana* seed	-25.33	1	Ward et al. 2022:Table 1	Mound A, lower organically enriched fill
Jaketown	22HU505	UGA-38992	3150 ± 20	*Diospyros virginiana* seed	-25.48	1	Ward et al. 2022:Table 1	Mound A, upper organically enriched fill
Jaketown	22HU505	UGA-38993	3110 ± 20	*Diospyros virginiana* seed	-25.94	1	Ward et al. 2022:Table 1	Mound A, immediately below sterile crevasse deposit
Jaketown	22HU505	UGA-41847	3910 ± 70	*Diospyros virginiana* seed	-23.39	1	Ward et al. 2022:Table 1	unit J100, pit at base of PP midden
Jaketown	22HU505	UGA-41848	3200 ± 25	nutshell (*Carya sp.*)	-24.05	1	Ward et al. 2022:Table 1	unit J103, PPO concentration in submound X
Jaketown	22HU505	AA-83901	3416 ± 64	charcoal	-26.4	2	Kidder et al. 2017:Table 1	Core 38, Stratum C
Jaketown	22HU505	AA-83903	3201 ± 39	charcoal	-26.3	2	Kidder et al. 2017:Table 1	Core 38, Stratum I
Jaketown	22HU505	AA-83902	3585 ± 40	charcoal	-25.3	2	Kidder et al. 2017:Table 1	Core 38, Stratum F
Jaketown	22HU505	OS-151671	3170 ± 20	*Diospyros virginiana* seed	na	1	Ward et al. 2022:Table 1	unit J103, submound X
Jaketown	22HU505	OS-159306	3190 ± 20	nutshell (*Carya sp.*)	na	1	Ward et al. 2022:Table 1	Trench 1 midden (lower)
Jaketown	22HU505	OS-160358	3160 ± 20	nutshell (*Carya sp.*)	na	1	Ward et al. 2022:Table 1	Trench 1 midden (upper)
Jaketown	22HU505	OS-165296	3170 ± 20	charcoal	-25.6	2	Grooms 2002	unit J103, Str. 2

[1] Radiocarbon dates are reported as Radiocarbon Years Before Present and calculated using the Libby ^{14}C half-life (5,568 years).

[2] See text for explanation of rankings

[3] na= not available (not published or not assayed)

Table SI2. All radiocarbon dates attributed to Poverty Point cultural contexts. Complete details for each date are found in the references listed.

Site Name	Site No.	Lab No.	Radiocarbon Age (Years BP)[1]	Material Dated	$\delta^{13}C_{0/00}$	Ranking[2]	Reference	**Context**
Poverty Point	16WC5	L-195	2860 ± 100	charcoal	na[3]	4	Ford and Webb 1956:Table 9	Ridge N4, Trench 1, "from fireplace 18 inches beneath surface"
Poverty Point	16WC5	L-272	2700 ± 100	charcoal	na	4	Ford and Webb 1956:Table 9	Mound B
Poverty Point	16WC5	M-403	2850 ± 250	charcoal	na	4	Ford and Webb 1956:Table 9	Mound B
Poverty Point	16WC5	O-66	3150 ± 120	charcoal	na	4	Ford and Webb 1956:Table 9	Mound B
Poverty Point	16WC5	Schatzman A	2685 ± 210	charcoal	na	4	Ford and Webb 1956:Table 9	Mound B
Poverty Point	16WC5	Schatzman B	2339 ± 200	charcoal	na	4	Ford and Webb 1956:Table 9	Mound B
Poverty Point	16WC5	M-2154	2820 ± 150	charcoal (*Arundinaria sp*.)	na	4	Crane and Griffin 1972:212	Ridge N2, burned structure on a pre-construction level
Poverty Point	16WC5	LSU-73-057	2815 ± 255	no data	na	4	Webb 1982:Table 1	no context information available
Poverty Point	16WC5	UGa-1697	2845 ± 115	charcoal	na	3	Haag 1990	Plaza, XU 4, pit at base of midden (fea. 18?), 70 cm bs?
Poverty Point	16WC5	UGa-2468	3065 ± 90	charcoal	na	2	Woodiel 1990	Plaza, N4E12, fea. 11
Poverty Point	16WC5	Tx-680	3000 ± 90	charcoal (*Arundinaria sp*.)	na	4	Webb 1982:Table 1	Ridge N2, a burned structure on a pre-construction level
Poverty Point	16WC5	Tx-4965	3110 ± 90	charcoal?	na	4	Greene 1985:28, 30, Table 1	Deep Six; N44 E50, Str. IIA, Fea. 9
Poverty Point	16WC5	Tx-4966	2490 ± 80	charcoal?	na	4	Greene 1985:28, 30, Table 1	Deep Six; N46 E53, Str. IIIA, Fea. 14
Poverty Point	16WC5	Tx-4967a	4960 ± 170	charcoal	na	4	Greene 1985:28, 30, Table 1	Deep Six; N48 E54, Str. IIIA
Poverty Point	16WC5	Tx-4967b	4350 ± 240	charcoal	na	4	Greene 1985:28, 30, Table 1	Deep Six; N48 E54, Str. IIIA
Poverty Point	16WC5	Tx-4968	3400 ± 100	charcoal?	na	4	Greene 1985:28, 30, Table 1	Deep Six; N46 E53, Str. IIIA
Poverty Point	16WC5	Tx-4969	4960 ± 80	charcoal	na	4	Greene 1985:28, 30, Table 1	Deep Six; N45 E55, Str. IVA
Poverty Point	16WC5	Tx-4970	3800 ± 70	charcoal?	na	4	Greene 1985:28, 30, Table 1	Deep Six; N47.80 E56, Str. IVA
Poverty Point	16WC5	Tx-4974	4850 ± 110	charcoal?	na	4	Greene 1985:28, 30, Table 1	Deep Six; N45 E55, Str. IVA
Poverty Point	16WC5	Tx-4983	3340 ± 60	charcoal	na	3	Gibson 1984:112-113	Ridge N4, Double Deep Six, "203cm below data in Unit G"
Poverty Point	16WC5	Tx-4984	3130 ± 210	charcoal	na	2	Gibson 1984:112-113	Ridge N4, Double Deep Six, "175cm below data in Unit F"
Poverty Point	16WC5	Tx-5324	2970 ± 130	charcoal	na	4	Gibson 1987b:148, 150	Ridge W3, unit W3A
Poverty Point	16WC5	Tx-5325	3760 ± 720	charcoal	na	3	Gibson 1987b:150	Ridge W3, unit W3X, zone 3A, 85-87 cm bgs
Poverty Point	16WC5	Tx-5326	2690 ± 650	charcoal	na	4	Gibson 1987b:110	Ridge SW4, unit N4730 5130E, 52-62cm bgs
Poverty Point	16WC5	Tx-5327	2580 ± 730	charred material	na	4	Gibson 1987b:110	Ridge SW4, 4705N 5130E, 109 cm bgs
Poverty Point	16WC5	Tx-5328	2860 ± 200	charred material	na	4	Gibson 1987b:64	Mound D, 4926N 5403E; Zone IIIc
Poverty Point	16WC5	Tx-5442	3230 ± 70	charcoal	na	4	Gibson 1993:64-65	Ridge W4, 5281N E4743E, level 10
Poverty Point	16WC5	Tx-5443	3080 ± 240	charcoal	na	4	Gibson 1993:64	Ridge W3, unit 5276N 4781E, level 9, 80-90 cm bgs
Poverty Point	16WC5	Tx-5444	3220 ± 80	charcoal	na	4	Gibson 1993:64	Ridge W3, unit 5276N 4787E, 170-180 cm bgs
Poverty Point	16WC5	Tx-5445	3270 ± 80	charcoal	na	4	Gibson 1993:63-64	Ridge W3, unit 5276N 4787E, level 15, 140-150 cmbgs
Poverty Point	16WC5	Tx-5446	3080 ± 70	charcoal	na	4	Gibson 1993:65	Ridge W4, unit 5281N 4737E, level 9, 90 cmbgs
Poverty Point	16WC5	Tx-8440	2657 ± 44	soil organic matter	-24.3	3	Gibson 1997:46, Table 6	Ridge N3, unit 5660N 5163E, bulk soil humates, 85-90 cm bgs
Poverty Point	16WC5	Beta-47965	3180 ± 70	charcoal	na	2	Miller 1997:31-32	Ridge N2, Unit H, Stratum 6, Fea. 15
Poverty Point	16WC5	Beta-71858	3200 ± 70	charcoal	na	2	Gibson 1994b:28-30	Ridge N4, unit 5691N 5181E, fea. 3, 140-152 cm bgs
Poverty Point	16WC5	Beta-71859	3180 ± 130	charcoal	na	2	Gibson 1994b:28-30	Ridge N4, unit 5689N 5181E, 200-210 cm bgs
Poverty Point	16WC5	Beta-72595	3140 ± 80	charcoal	-26.4	3	Gibson 1994b:47	Ridge S/SW 6, 4642.2N 5223E, Fea. 4
Poverty Point	16WC5	Beta-75876	3400 ± 130	uncertain	na	4	Gibson 1994b:47	Ridge S/SW6, "Saunders Feature 1"
Poverty Point	16WC5	Beta-94168	3060 ± 60	charcoal	-27.9	4	Gibson 1997:47	Ridge N3, unit 5653N 5163E, 60-70 cm bgs
Poverty Point	16WC5	Beta-122916	3160 ± 140	unknown (charcoal?)	-25.6	4	Connolly 2001b:64	Ridge W3, unit 5228N 4799E, Level 11, 100-110 cm bgs
Poverty Point	16WC5	Beta-122917	3040 ± 50	unknown (charcoal?)	-27.8	4	Connolly 2001b:64	Ridge W3, unit 5228N 4799E, Level 13A, 120 cm bgs
Poverty Point	16WC5	Beta-153802	3110 ± 40	charred material	-24.8	3	Connolly 2001:183-184, Table 58	Ridge NW1, unit 40N 15E, Fea. 6
Poverty Point	16WC5	Beta-153803	2970 ± 40	charred material	-24.8	2	Connolly 2001:183-184, Table 58	Ridge NW1, unit 45N 15E, Fea. 27
Poverty Point	16WC5	Beta-153804	3040 ± 70	charred material	na	2	Connolly 2001:183-184, Table 58	Ridge NW1, unit 50N 15E, Fea. 86
Poverty Point	16WC5	Beta-154367	3000 ± 40	charred material	-26.2	3	Connolly 2001b:48-55	Ridge 3S, 4833.87N 5383.97E, str. 4Ab, 226-280 cm bgs
Poverty Point	16WC5	Beta-175059	3340 ± 40	charred material	-27.2	3	Kidder et al. 2004	Mound B, Core B-5, Str. K
Poverty Point	16WC5	Beta-177759	3180 ± 40	charred material	-26.5	2	Connolly 2003b:48, Appendix C	Ridge SW1, unit 4969N 4984.75E, TU2, Fea. 2, 60 cm bgs
Poverty Point	16WC5	Beta-177760	3120 ± 40	charred material	-26.4	3	Connolly 2003b:48, Appendix C	Ridge SW1, unit 4975.06N 4985.63E, 150 cm bd
Poverty Point	16WC5	Beta-197514	3070 ± 40	uncarbonized root	-21.7	1	Ortmann and Kidder 2013	Mound A, submound Ab horizon
Poverty Point	16WC5	Beta-207440	3060 ± 40	charcoal	-23.6	2	Ortmann and Kidder 2013	Mound A, submound Ab horizon
Poverty Point	16WC5	Beta-207441	3660 ± 40	charcoal (twig end)	-22.6	1	Ortmann and Kidder 2013	Mound A, submound Ab horizon

Table SI2. All radiocarbon dates attributed to Poverty Point cultural contexts. Complete details for each date are found in the references listed.

Site Name	Site No.	Lab No.	Radiocarbon Age (Years BP)[1]	Material Dated	$\delta^{13}C_{0/00}$	Ranking[2]	Reference	**Context**
Poverty Point	16WC5	Beta-219671	2980 ± 40	charcoal	-27.9	4	Ortmann and Kidder 2013	Mound A, submound Ab horizon
Poverty Point	16WC5	Beta-230783	3120 ± 40	charcoal (*Quercus sp* .)	-25.7	2	Greenlee 2007:21	Ridge N3, tram road trench, Level 7B, Fea. 1
Poverty Point	16WC5	Beta-260708	3100 ± 49	charcoal (twig)	-25.7	1	Greenlee 2009:69	Plaza, Circle 26, posthole, fea. 8/19, 137 cm bgs
Poverty Point	16WC5	Beta-274979	3020 ± 40	charcoal (*Quercus sp* .)	-23.7	2	Greenlee 2010:70	Plaza, Block 2, circle 14, Fea 7, pit fill, 96 cm bgs
Poverty Point	16WC5	Beta-274980	2990 ± 40	charcoal (*Quercus sp* .)	-25.2	2	Greenlee 2010:71	Plaza, Block 4, circle 10 Fea 11, post pit fill, 149 cm bgs
Poverty Point	16WC5	Beta-274981	3050 ± 40	charcoal (*Quercus* ?)	-26.2	2	Greenlee 2010:72	Plaza, Block 1, Circle 12, Fea 18, post pit fill, 128.5 cm bgs
Poverty Point	16WC5	Beta-330345	3010 ± 30	charred material	-25.5	2	Greenlee 2012:78-79	Plaza, Block 4. Feature 1
Poverty Point	16WC5	Beta-330346	3080 ± 30	charred material	-27.5	2	Greenlee 2012:78-79	Plaza, Block 4. Feature 2
Poverty Point	16WC5	Beta-359178	3090 ± 30	charcoal	-25.7	4	Greenlee 2013:50-51	Mound F, Core 1, 2Ab, 127-150 cm bgs
Poverty Point	16WC5	Beta-359179	2970 ± 30	charcoal	-29.8	4	Greenlee 2013:50-51	Mound F, 2Ab, 120–145 cm bgs
Poverty Point	16WC5	Beta-410558	3180 ± 30	charcoal	-26.9	2	Greenlee 2015:27-28	Mound F, Unit 1, Lvl 8, midden/2Ab, 65 cm bgs
Poverty Point	16WC5	Beta-410559	2990 ± 30	UID charred seed fragment	-23	1	Greenlee 2015:27-28	Mound F, Unit 1, Lvl 9, midden/2Ab, 71 cm bgs
Poverty Point	16WC5	Beta-473140	3150 ± 30	charcoal	-25.9	2	Greenlee 2017:Table 4	West Plaza Rise; sample from the C5 horizon, 77-91 cm bgs
Poverty Point	16WC5	Beta-473141	3070 ± 30	charcoal (*Quercus sp.*)	-25.6	2	Greenlee 2017:Table 4	Causeway; Core 17, 2A2b, 186-191 cm bgs
Poverty Point	16WC5	Beta-473142	3140 ± 30	charcoal	na	3	Greenlee 2017:Table 4	Mound E ramp; Core 10, 2Ab, 213-241 cm bgs
Poverty Point	16WC5	Beta-473143	3090 ± 30	charcoal (*Quercus sp* .)	-26	2	Greenlee 2017:Table 4	Mound E ridge; Core 9, 2Ab
Poverty Point	16WC5	Beta-473144	3200 ± 30	charcoal	-30.3	3	Greenlee 2017:Table 4	Ridge 2SW anomaly; Core 4, BA 72-78 cm bgs
Poverty Point	16WC5	Beta-473145	3110 ± 30	charcoal	-26.1	2	Greenlee 2017:Table 4	Mound E ridge; BC & E' horizon, 63-72 cm bgs
Poverty Point	16WC5	Beta-503112	3270 ± 30	*Diospyros virginiana* seed	-28.3	1	Hargrave et al., 2021:Table 1	Plaza, Circle 12, Fea. 23, 92-112 cm bgs
Poverty Point	16WC5	Beta-504188	3290 ± 30	*Juglans nigra* shell	-23.2	1	Hargrave et al., 2021:Table 1	Plazza, Circle 12, Fea. 30, 130-140 cm bgs
Poverty Point	16WC5	Wk-10963	3123 ± 59	charcoal	-26.2	2	Ortmann 2007:137-138	Mound D, unit 4952.18N 5416.42E, feature 5
Poverty Point	16WC5	Wk-11282	3303 ± 47	charcoal	-25.1	2	Ortmann 2007:137	Mound D, unit 4952.18N 5416.42E
Poverty Point	16WC5	Wk-11283	3264 ± 47	charcoal	-26.5	2	Ortmann 2010:Table 1	Mound C, unit 5360.32N 5130.21E
Poverty Point	16WC5	Wk-11284	3386 ± 49	charcoal	-26.3	3	Ortmann 2010:Table 1	Mound C, unit5360.32N 5130.21E
Poverty Point	16WC5	Wk-11285	3068 ± 47	charcoal	-24	3	Ortmann 2010:Table 1	Mound C, unit 5360.39N 5131.15E; Feature 22
Poverty Point	16WC5	OS-136339	3120 ± 25	UID nutshell	na	2	Kidder et al. 2021:Table 1	Ridge W3, unit 5276N 4790E, ridge fill
Poverty Point	16WC5	OS-136340	3060 ± 30	UID nutshell	na	2	Kidder et al. 2021:Table 1	Ridge W3, unit 5276N 4790E, ridge fill
Poverty Point	16WC5	OS-136341	3060 ± 20	charcoal	na	2	Kidder et al. 2021:Table 1	Ridge W3, unit 5276N 4790E, preconstruction horizon
Poverty Point	16WC5	OS-136342	3070 ± 20	nutshell (*Carya* ?)	na	2	Kidder et al. 2021:Table 1	Ridge W3, unit 5276N 4790E, ridge fill
Poverty Point	16WC5	OS-136942	3240 ± 30	charcoal	na	2	Kidder et al. 2021:Table 1	Ridge W3, unit 5276N 4790E, ridge fill
Poverty Point	16WC5	OS-167106	3230 ± 45	*fimbristylis* seed	na	1	Ward n.d. (unpublished)	Mound A, submound Ab horizon
Motley Mound	16WC7	UGA-3382	4050 ± 25	soil organic matter	-19.2	4	Saunders et al. 2008:66-69	Core 4, 2Ab, 332-358 cm bgs
McGuffee	16CT17	Beta-128950	3250 ± 50	soil organic matter	-26.3	4	Jones et al. 2000:66-68	TU 4, Fea. 2, top midden
McGuffee	16CT17	Beta-128951	3570 ± 40	charred bone	-22.8	2	Jones et al. 2000:66-68	TU 3, from lower midden
McGuffee	16CT17	Beta-128952	3210 ± 60	soil organic matter	-26.1	4	Jones et al. 2000:66-68	TU 3, lower midden
McGuffee	16CT17	Beta-128953	3250 ± 50	charcoal	-24.3	2	Jones et al. 2000:66-68	TU 4, lower midden
McGuffee	16CT17	Beta-128954	3340 ± 40	charcoal	-24.9	2	Jones et al. 2000:66-68	TU 4, lower midden
Cowpen Slough	16CT147	I-13, 241	4560 ± 230	charcoal	na	3	Ramenofsky and Mires 1985:Table 25	unit 6N 12W, Feature 4
Cowpen Slough	16CT147	I-13, 355	4020 ± 180	charcoal	na	3	Ramenofsky and Mires 1985:Table 25	unit 10S 1W, Feature 13
Cowpen Slough	16CT147	I-13, 821	3410 ± 140	charcoal	na	3	Ramenofsky and Mires 1985:Table 25	unit 35S 3.9E
Cowpen Slough	16CT147	I-13, 822	3170 ± 140	charcoal	na	3	Ramenofsky and Mires 1985:Table 25	unit 20S 4.01W
Cowpen Slough	16CT147	I-13, 823	3460 ± 90	charcoal	na	3	Ramenofsky and Mires 1985:Table 25	unit 16.3S 10.3E, Feature 36
Cowpen Slough	16CT147	I-13, 824	3220 ± 100	charcoal	na	3	Ramenofsky and Mires 1985:Table 25	unit 34S 3.8E, Feature 37
Cowpen Slough	16CT147	I-13, 831	2980 ± 140	charcoal	na	3	Ramenofsky and Mires 1985:Table 25	unit 34S 4.01E
Cowpen Slough	16CT147	I-13, 832	3490 ± 90	charcoal	na	3	Ramenofsky and Mires 1985:Table 25	unit 16.3S 10.3E, Feature 36
Hays Mound	16FR183	UGA-2674	2880 ± 40	charcoal	-17.1	3	Saunders 2008:44-45	center mound core; 3Ab horizon, 224 -264 cm bgs
J.W. Copes	16MA47	AA-4176	3440 ± 90	*Cucurbita sp* . seed	na	1	Jackson 1986:308-310	Feature 41, middle midden units
J.W. Copes	16MA47	Beta-9580	3040 ± 100	*Carya sp* . nutshell	na	1	Jackson 1986:308-310	Feature 43, upper midden stratum
J.W. Copes	16MA47	Beta-9581	3170 ± 90	*Quercus sp* . nutshell	na	1	Jackson 1986:308-310	Feature 39, lower silt stratum
Linsley	16OR40	G-577	4440 ± 140	charcoal	na	4	Gagliano and Saucier 1963	Buried midden 5.5 - 6.0 ft below sea level

Table SI2. All radiocarbon dates attributed to Poverty Point cultural contexts. Complete details for each date are found in the references listed.

Site Name	Site No.	Lab No.	Radiocarbon Age (Years BP)[1]	Material Dated	$\delta^{13}C_{0/00}$	Ranking[2]	Reference	**Context**
Linsley	16OR40	G-578	3840 ± 130	charcoal	na	4	Gagliano and Saucier 1963	Buried midden 5.5-6 ft below sea level
Linsley	16OR40	G-579	3540 ± 120	charcoal	na	4	Gagliano and Saucier 1963	Buried midden, 5.5-6.0 ft. below sea level
Linsley	16OR40	G-580	3990 ± 170	*Rangia cuneata* shell	na	4	Gagliano and Saucier 1963	Buried midden 6.0-6.5 ft. below sea level
Linsley	16OR40	G-581	4040 ± 140	peat & organic clay	na	4	Gagliano and Saucier 1963	16 - 16.5 ft below sea level
Bayou Jasmine	16SJB2	AA-9229	3150 ± 65	cordage	-26.7	4	Kutruff et al. 1995:Table 1	surface find
Claiborne	22HA501	Beta-453790	3370 ± 30	charcoal (soot)	-22.7	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 1, interior
Claiborne	22HA501	Beta-453791	6180 ± 30	charcoal (soot)	-27.7	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 3, exterior
Claiborne	22HA501	Beta-453793	3820 ± 30	charcoal (soot)	-25.6	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 5 exterior
Claiborne	22HA501	Beta-453794	3020 ± 30	charcoal (soot)	-24.8	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 6, exterior
Claiborne	22HA501	Beta-453795	3020 ± 30	charcoal (soot)	-24.7	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 7, exterior
Claiborne	22HA501	Beta-453796	3090 ± 30	charcoal (soot)	-25	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 11, exterior
Claiborne	22HA501	Beta-454908	3010 ± 30	charcoal (soot)	-26.3	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 6, interior
Claiborne	22HA501	Beta-454909	2970 ± 30	charcoal (soot)	-27	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 7, interior
Claiborne	22HA501	Beta-454910	3150 ± 30	charcoal (soot)	-26.1	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 8, exterior
Claiborne	22HA501	Beta-454911	3000 ± 30	charcoal (soot)	-26.3	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 11, interior
Claiborne	22HA501	Beta-454912	3030 ± 30	charcoal (soot)	-25.4	2	Sassaman and Brookes 2017:Table 2	Steatite vessel cache; Vessel 12, exterior
Claiborne	22HA501	UGa-1693	3385 ± 140	charcoal	na	3	Bruseth 1991:Table 2	unit 2N4E
Claiborne	22HA501	I-3705	3100 ± 100	charcoal (?)	na	4	Gagliano and Webb 1970:69	"a sample from near the base of the Claiborne midden"
Claiborne	22HA501	TX-1403	3990 ± 80	unknown	na	4	Webb 1982:Table 1	No context given
Claiborne	22HA501	TX-1404	3470 ± 160	unknown	na	4	Webb 1982:Table 1	No context given
Claiborne	22HA501	UGa-359	3175 ± 140	charcoal	na	3	upublished; Miss. State Univ. archives	unit 980N 580E, level III
Cederland	22HA506	G-561	3200 ± 130	charcoal	na	4	Gagliano and Webb 1970:69	"from the upper level of the Cedarland Site"
Teoc Creek	22CR504	M-2393	3400 ± 160	charcoal	na	4	Connoway et al. 1977:Table 9	unit 0-10E, Level 2
Teoc Creek	22CR504	M-2394	3020 ± 150	charcoal	na	4	Connoway et al. 1977:Table 9	unit 10S-10E, Level 2
Teoc Creek	22CR504	M-2415	3080 ± 150	charcoal	na	4	Connoway et al. 1977:Table 9	unit 0-10E, Level 3
Teoc Creek	22CR504	M-2416	3470 ± 160	charcoal	na	4	Connoway et al. 1977:Table 9	unit 0-10E, Level 4
Teoc Creek	22CR504	M-2412	3600 ± 160	charcoal	na	4	Connoway et al. 1977:Table 9	unit 10S-10E, Level 4
Teoc Creek	22CR504	M-2417	3380 ± 160	charcoal	na	4	Connoway et al. 1977:Table 9	uit 0-10E, Level 5
Teoc Creek	22CR504	M-2413	3210 ± 250	charcoal	na	4	Connoway et al. 1977:Table 9	unit 10S-10E, Level 5
Teoc Creek	22CR504	M-2414	3270 ± 200	charcoal	na	4	Connoway et al. 1977:Table 9	unit 10S-10E, Level 6
Teoc Creek	22CR504	M-2395	3650 ± 160	charcoal and charred seeds	na	4	Connoway et al. 1977:Table 9	"from the deep midden at the west end of the profile trench"
Lake Enterprise	3AS379	Beta 169320	2970 ± 40	charcoal (*Arundinaria sp*.)	-26.7	1	Jeter 2010	Mound, from the "the upper (stratigraphically later) pit feature"
Lake Enterprise	3AS379	Beta 262804	3000 ± 40	charcoal (*Arundinaria sp*.)	-25.3	4	Jeter 2010	Mound, "the stratigraphically lower… pre-mound feature"
Jaketown	22HU505	M-216	2830 ± 300	charcoal	na	3	Ford and Webb 1956:Table 9	Trench 5, square 0-2 m, level U
Jaketown	22HU505	L-114	2350 ± 80	charcoal	na	3	Ford and Webb 1956:Table 9	"Poverty Point cultural deposits immediately above… sand bar"
Jaketown	22HU505	O-41	2560 ± 100	Unidentified shell	na	4	Ford and Webb 1956:Table 9	"from Poverty Point cultural deposits"
Jaketown	22HU505	O-46	2150 ± 110	bone	na	4	Ford and Webb 1956:Table 9	"from Poverty Point cultural deposits"
Jaketown	22HU505	Beta-154428	3630 ± 80	soil organic matter	-23.6	4	Saunders and Allen 2003	Core 1
Jaketown	22HU505	Beta-156646	3150 ± 50	charcoal	-26.8	3	Saunders and Allen 2003	Core 2
Jaketown	22HU505	Beta-157421	3350 ± 40	charcoal	-26.4	3	Saunders and Allen 2003	Core 3
Jaketown	22HU505	Beta-236318	3170 ± 40	charcoal	-25.9	2	Kidder et al. 2017:Table 1	Core 24, Strat. 5, 4Ab
Jaketown	22HU505	Beta-235218	3260 ± 40	charcoal	-27.3	2	Kidder et al. 2017:Table 1	Core 24, Str. 21, 312 cmbs
Jaketown	22HU505	Beta-253774	3660 ± 40	charcoal	-27	2	Kidder et al. 2017:Table 1	unit J100, pit at base of PP midden
Jaketown	22HU505	Beta-253789	3120 ± 40	charcoal	na	2	Kidder et al. 2017:Table 1	unit J100, upper PP midden
Jaketown	22HU505	Beta-252854	3220 ± 40	charcoal	-26.5	2	Kidder et al. 2017:Table 1	unit J100, upper basal PP midden
Jaketown	22HU505	Beta-263420	3280 ± 40	charcoal	-23.7	2	Kidder et al. 2017:Table 1	unit J103, Upper surface PP earthwork
Jaketown	22HU505	Beta-263421	3220 ± 40	charcoal	-27.1	2	Kidder et al. 2017:Table 1	unit J103, bottom PP midden
Jaketown	22HU505	Beta-264059	3340 ± 40	charcoal	-23.4	2	Kidder et al. 2017:Table 1	unit J103, 353 cmbs
Jaketown	22HU505	Beta-555137	3260 ± 30	soot (charcoal)	-25.2	2	Ward et al. 2022:Table 1	unit J103, steatite sherd
Jaketown	22HU505	UGA-38991	3150 ± 20	*Diospyros virginiana* seed	-25.33	1	Ward et al. 2022:Table 1	Mound A, lower organically enriched fill

Table SI2. All radiocarbon dates attributed to Poverty Point cultural contexts. Complete details for each date are found in the references listed.

Site Name	Site No.	Lab No.	Radiocarbon Age (Years BP)[1]	Material Dated	$\delta^{13}C_{0/00}$	Ranking[2]	Reference	**Context**
Jaketown	22HU505	UGA-38992	3150 ± 20	*Diospyros virginiana* seed	-25.48	1	Ward et al. 2022:Table 1	Mound A, upper organically enriched fill
Jaketown	22HU505	UGA-38993	3110 ± 20	*Diospyros virginiana* seed	-25.94	1	Ward et al. 2022:Table 1	Mound A, immediately below sterile crevasse deposit
Jaketown	22HU505	UGA-41847	3910 ± 70	*Diospyros virginiana* seed	-23.39	1	Ward et al. 2022:Table 1	unit J100, pit at base of PP midden
Jaketown	22HU505	UGA-41848	3200 ± 25	nutshell (*Carya sp.*)	-24.05	1	Ward et al. 2022:Table 1	unit J103, PPO concentration in submound X
Jaketown	22HU505	AA-83901	3416 ± 64	charcoal	-26.4	2	Kidder et al. 2017:Table 1	Core 38, Stratum C
Jaketown	22HU505	AA-83903	3201 ± 39	charcoal	-26.3	2	Kidder et al. 2017:Table 1	Core 38, Stratum I
Jaketown	22HU505	AA-83902	3585 ± 40	charcoal	-25.3	2	Kidder et al. 2017:Table 1	Core 38, Stratum F
Jaketown	22HU505	OS-151671	3170 ± 20	*Diospyros virginiana* seed	na	1	Ward et al. 2022:Table 1	unit J103, submound X
Jaketown	22HU505	OS-159306	3190 ± 20	nutshell (*Carya sp.*)	na	1	Ward et al. 2022:Table 1	Trench 1 midden (lower)
Jaketown	22HU505	OS-159311	5290 ± 35	nutshell (*Carya sp.*)	na	2	Grooms 2022	Trench 1, N profile
Jaketown	22HU505	OS-160358	3160 ± 20	nutshell (*Carya sp.*)	na	1	Ward et al. 2022:Table 1	Trench 1 midden (upper)
Jaketown	22HU505	OS-165296	3170 ± 20	charcoal	-25.6	2	Grooms 2022	unit J103, Str. 2

[1] Radiocarbon dates are reported as Radiocarbon Years Before Present and calculated using the Libby ^{14}C half-life (5,568 years).

[2] See text for explanation of rankings

[3] na= not available (not published or not assayed)

Table SI3. Luminescence Dates from Poverty Point-Related Sites

Site No.	Site Name	Lab No.	Reported Age	Error (2σ)	Method	Material Dated	Reference
16WC5	Poverty Point	UW-738	3300 BC	260	OSL	sediment	Ortmann 2007; Kidder et al. 2004
16WC5	Poverty Point	UW-739	2100 BC	350	OSL	sediment	Ortmann 2007; Kidder et al. 2004
16WC5	Poverty Point	UW-2578a	AD 890	190	OSL	sediment	Greenlee 2011
16WC5	Poverty Point	UW-2578b	AD 560	180	OSL	sediment	Greenlee 2011
16WC5	Poverty Point	UW-2579a	SD 850	170	OSL	sediment	Greenlee 2011
16WC5	Poverty Point	UW-2759b	1500 BC	280	OSL	sediment	Greenlee 2011
16WC5	Poverty Point	UW-2759c	1230 BC	360	OSL	sediment	Greenlee 2011
16WC5	Poverty Point	unknown	2142 BP	424	OSL	sediment	US Dept. of the Interior 2013:table 7.2
16WC5	Poverty Point	UW-591-3	3680 BP	480	OSL	sediment	US Dept. of the Interior 2013:table 7.2
16WC5	Poverty Point	UW-597a	2590 BP	400	OSL	sediment	US Dept. of the Interior 2013:table 7.2
16WC5	Poverty Point	UW-597b	2980 BP	520	OSL	sediment	US Dept. of the Interior 2013:table 7.2
16WC5	Poverty Point	LB-0150	1912 BC	117	OSL	sediment	US Dept. of the Interior 2013:table 7.2
16WC5	Poverty Point	LB-0152	2341 BC	206	OSL	sediment	US Dept. of the Interior 2013:table 7.2
16WC5	Poverty Point	LB-0153	1472 BC	165	OSL	sediment	US Dept. of the Interior 2013:table 7.2
16WC5	Poverty Point	LB-410	AD 716	149	OSL	sediment	US Dept. of the Interior 2013:table 7.2
16WC5	Poverty Point	b2	120 BC	130	TL	PPO	Huxtable et al. 1972:Table 2
16WC5	Poverty Point	b3	841 BC	370	TL	PPO	Huxtable et al. 1972:Table 2
16WC5	Poverty Point	b4	1303 BC	330	TL	PPO	Huxtable et al. 1972:Table 2
16WC5	Poverty Point	b5	975 BC	380	TL	PPO	Huxtable et al. 1972:Table 2
16WC5	Poverty Point	b6	1079 BC	250	TL	PPO	Huxtable et al. 1972:Table 2
16WC5	Poverty Point	UW-485	AD 911	329	TL	ceramic	Saunders 2000
16WC5	Poverty Point	UW-486	6556 BC	768	TL	ceramic	Saunders 2000
16Ma16	Terral Lewis	a1	1492 BC	450	TL	PPO	Huxtable et al. 1972:Table 2
16Ma16	Terral Lewis	a2	1169 BC	280	TL	PPO	Huxtable et al. 1972:Table 2
16Ma16	Terral Lewis	a3	883 BC	290	TL	PPO	Huxtable et al. 1972:Table 2
16Ma16	Terral Lewis	a4	988 BC	230	TL	PPO	Huxtable et al. 1972:Table 2
22Cr504	Teoc Creek	e1	1280 BC	310	TL	PPO	Huxtable et al. 1972:Table 2
22Cr504	Teoc Creek	e2	964 BC	680	TL	PPO	Huxtable et al. 1972:Table 2
22Cr504	Teoc Creek	e3	967 BC	250	TL	PPO	Huxtable et al. 1972:Table 2
22Cr504	Teoc Creek	e4	641 BC	200	TL	PPO	Huxtable et al. 1972:Table 2
22Cr504	Teoc Creek	e5	1034 BC	260	TL	PPO	Huxtable et al. 1972:Table 2

Table SI3. Luminescence Dates from Poverty Point-Related Sites

Site No.	Site Name	Lab No.	Reported Age	Error (2σ)	Method	Material Dated	Reference
22Cr504	Teoc Creek	e6	1419 BC	320	TL	PPO	Huxtable et al. 1972:Table 2
22Cr504	Teoc Creek	e7	1247 BC	290	TL	PPO	Huxtable et al. 1972:Table 2
22Hu505	Jaketown	d1	1346 BC	230	TL	PPO	Huxtable et al. 1972:Table 2
22Hu505	Jaketown	d2	942 BC	580	TL	PPO	Huxtable et al. 1972:Table 2
22Hu505	Jaketown	d3	908 BC	290	TL	PPO	Huxtable et al. 1972:Table 2
22Hu505	Jaketown	d4	858 BC	300	TL	PPO	Huxtable et al. 1972:Table 2
212Ha50	Claiborne	g2	574 BC	230	TL	PPO	Huxtable et al. 1972:Table 2
212Ha50	Claiborne	g3	2186 BC	670	TL	PPO	Huxtable et al. 1972:Table 2
212Ha50	Claiborne	g4	AD 295	290	TL	PPO	Huxtable et al. 1972:Table 2
212Ha50	Claiborne	g5	625 BC	310	TL	PPO	Huxtable et al. 1972:Table 2
16Ct342	Shoe Bayou	f2	833 BC	245	TL	PPO	Huxtable et al. 1972:Table 2
16Ct342	Shoe Bayou	f3	1510 BC	220	TL	PPO	Huxtable et al. 1972:Table 2
16Ct342	Shoe Bayou	f4	292 BC	150	TL	PPO	Huxtable et al. 1972:Table 2
16Ct342	Shoe Bayou	f5	971 BC	300	TL	PPO	Huxtable et al. 1972:Table 2
16Ct342	Shoe Bayou	f6	1226 BC	250	TL	PPO	Huxtable et al. 1972:Table 2
16Ct342	Shoe Bayou	f7	1134 BC	180	TL	PPO	Huxtable et al. 1972:Table 2

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