**Supplemental Information**

1. **OxCal model code**

Plot()

 {

 Phase("Cub Creek")

 {

 Sequence("Cub Creek Uplands")

 {

 Boundary("Start Cub Creek Uplands");

 Phase("Cub Creek Uplands")

 {

 Phase("Hoopes Shelter")

 {

 R\_Date("UGAMS-33083", 1700, 20);

 R\_Date("D-AMS-204939", 1629, 34);

 };

 Phase("Elder Springs Shelter")

 {

 R\_Date("D-AMS-198910", 1410, 15);

 R\_Date("UCIAMS-198911", 1190, 15);

 };

 Phase("42UN8678")

 {

 After("TPQ Surface Feature 1")

 {

 R\_Date("D-AMS-024929", 1804, 31)

 {

 };

 };

 After("TPQ Surface Feature 2")

 {

 R\_Date("D-AMS-024930", 634, 30)

 {

 };

 };

 };

 Phase("USU-2017-T2")

 {

 After("TPQ Surface Feature 1")

 {

 R\_Date("D-AMS-024931", 1016, 31)

 {

 };

 };

 };

 Phase("42UN8701")

 {

 After("TPQ Surface Feature 1")

 {

 R\_Date("D-AMS-024932", 1308, 27)

 {

 };

 };

 };

 Phase("42UN8699")

 {

 After("TPQ Surface Feature 1")

 {

 R\_Date("D-AMS-024934", 1751, 27)

 {

 };

 };

 After("TPQ Surface Feature 2")

 {

 R\_Date("D-AMS-024933", 1094, 29)

 {

 };

 };

 };

 Phase("42UN8695")

 {

 After("TPQ Surface Feature 1")

 {

 R\_Date("D-AMS-024935", 1206, 35)

 {

 };

 };

 After("TPQ Surface Feature 2")

 {

 R\_Date("D-AMS-024936", 836, 33)

 {

 };

 };

 };

 Phase("Arrowhead Point Campsite")

 {

 After("TPQ Surface Feature 1")

 {

 R\_Date("D-AMS-024938", 1679, 34)

 {

 };

 };

 After("TPQ Surface Feature 2")

 {

 R\_Date("D-AMS-024937", 802, 28)

 {

 };

 };

 };

 Phase("Cub Creek Granary")

 {

 R\_Date("Beta-445425", 1000, 30);

 };

 };

 Boundary("End Cub Creek Uplands");

 Span("Cub Creek Uplands");

 };

 Sequence("Cub Creek Lowlands")

 {

 Boundary("Start Cub Creek Lowlands");

 Phase("Cub Creek Lowlands")

 {

 Phase("Wagon Run")

 {

 After("TPQ Truesdale Structure 4 Collared Hearth")

 {

 R\_Date("Beta-30450", 1340, 50)

 {

 };

 };

 After("TPQ Pithouse 2 Hearth Fill")

 {

 R\_Date("UCIAMS-198893", 1110, 15)

 {

 };

 };

 R\_Date("UCIAMS-198892", 1050, 15);

 R\_Date("UCIAMS-198894", 1120, 15);

 R\_Date("UCIAMS-198895", 1040, 15);

 };

 Phase("Boundary Village")

 {

 R\_Date("UCIAMS-198898", 1000, 15);

 };

 Phase("Burnt House")

 {

 R\_Date("UCIAMS-198899", 1125, 15);

 R\_Date("UCIAMS-198900", 1125, 15);

 };

 Phase("Dam Site")

 {

 After("TPQ Truesdale 1990 Feature 1 Collared Hearth")

 {

 R\_Date("Beta-33907", 1510, 90)

 {

 };

 };

 After("TPQ Feature 3 Hearth Fill")

 {

 R\_Date("UCIAMS-198902", 1210, 15)

 {

 };

 };

 R\_Date("UCIAMS-198901", 1045, 15);

 };

 Phase("Macleod Site")

 {

 After("TPQ Feature 6")

 {

 R\_Date("UCIAMS-198903", 1270, 15)

 {

 };

 };

 };

 Phase("Wholeplace Village")

 {

 After("TPQ Truesdale 1990 Structure 2")

 {

 R\_Date("Beta-30451", 1310, 50)

 {

 };

 };

 After("TPQ Pithouse 1")

 {

 R\_Date("UCIAMS-198904", 1170, 15)

 {

 };

 };

 After("TPQ Pithouse 2 Hearth 1")

 {

 R\_Date("UCIAMS-198905", 1615, 15)

 {

 };

 };

 After("TPQ Pithouse 4 Collared Hearth")

 {

 R\_Date("UCIAMS-198906", 1130, 15)

 {

 };

 };

 R\_Date("UCIAMS-198907", 1155, 15);

 };

 Phase("Fremont Playhouse")

 {

 After("TPQ Truesdale 1990 Feature 1 Posthole")

 {

 R\_Date("Beta-33906", 1560, 60)

 {

 };

 };

 };

 Phase("Corner Culvert Site")

 {

 After("TPQ Truesdale 1990 Pithouse 1")

 {

 R\_Date("Beta-38589", 1530, 50)

 {

 };

 };

 After("TPQ Truesdale 1990 Pithouse 2")

 {

 R\_Date("Beta-38588", 1550, 60)

 {

 };

 };

 };

 };

 Boundary("End Cub Creek Lowlands");

 Span("Cub Creek Lowlands");

 };

 Span("Cub Creek");

 };

 };