**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");

};

};