

tree, 104 inches in circumference two feet above ground, this tree is growing on top of ledge and so anchored, another old tree similarly anchored about 90 feet beyond has unusual character for photographing, it is dead, *Neotoma*^{nest} in the unusually large base of this tree; 11:27 cliff take a slight angle to right, 2 chickadees, 2 bluebirds, cardinal singing below; 11:30 2 red-headed woodpeckers, cliffs dropping off in height; 11:31 minor drainage, wire fence crosses, a stone marker (natural, on right side looking down, have noticed considerable large mammal activity (sidehill excavations) below first bench on slope between this bench and second bench, this slope is generally steep, rocky and exposed soils, 2 titmouse calling; great horned owl left base of cliffs; 11:33 2 cardinals, downy, redbellied woodpecker, 2 blue jays, 2 exceptionally large elms on cliffs, titmouse calling; 11:35 more under-story trees, cliff holding up in bold relief; 11:38 great horned owl noted at 11:31 left cliff area again and flew E across plateau, 7 jays, 4 titmouse, 2 chickadees surrounded owl before it left; 11:42 2 red headed woodpeckers; 11:43 2 titmouse; 2 chickadees; 11:44 crossing drainage, osage orange tree 40 inches in circumference in middle of drainage, *Neotoma* active; 40 feet beyond to SW damp area and water leaving spring (recorder tape jumped track and stopped to fit, left again at 12:09; 2 cardinals, 2 chickadees, 2 titmouse; 12:10 very old wagon road, 1 tree 3 inches in diameter in road; 12:12 osage orange tree 80 inches in circumference at 3 feet high, smaller one 20' down slope, considerable eating of old osage orange fruit; 12:14 old fireplace (circular) of rocks, osage orange tree dominating, most large ones; 12:15 cliffs make slight bend to E, more osage than I have seen beyond S end of proposed Clinton dam; 12:15 osage orange tree 85 inches circumference at 1 foot above base, gets larger up trunk and supports grass in crotch of 5 limbs or minor trunks that divide about 4 feet high; cottontail, osage on bench overaging 1 per every 30-40 feet in all directions, considerable eating of osage orange fruit by *Neotoma* and rabbits?; 12:19 old road bed, trees definitely osage and evenly spaced, spring and greenish moss for 50 feet across bench just beyond old wagon road, rock fence about 150 further to the S, piece of metal roof as if placed by tornado, large osage 40 down grade to W;