

Photographs of powerline right of way, Patuxent Wildlife Research Center, Summer and Fall of 1968. Taken by David Smith. These photographs were taken mainly from camera points established earlier by Higman. They show the state of the vegetation before and during the selective control work done in 1968 and constitute an integral part of Smith's report.



Figure 1 Upland site with *Robinia pseudoacacia*, *Populus grandidentata*, and *Pinus virginiana* predominant. The trees at the right are *Populus grandidentata*; the trees in the foreground are *Pinus virginiana* (some cut); and the trees in the left foreground are *Robinia pseudoacacia*. The small tree, in the lower left corner, is an *Aralia spinosa*. To the right of this tree, a *Prunus serotina* and a *Carya tomentosa* are present. These seedlings are positioned in front of the *Vaccinium* sp. and the *Solidago graminifolia*. To the right of the *Solidago graminifolia*, a patch of *Lysimachia quadrifolia* is present. Between the *Pinus virginiana* and the *Populus grandidentata*, there is a *Quercus phellos*. The view is southeast from Higman's Camera Point #1, Map I, about 63 feet east of the fence and 14 feet south of the access trail.



Figure 2 Upland site (photographed after pines were cut) dominated by *Pinus virginiana*, *Populus grandidentata*, and *Robinia pseudoacacia*. Upright trees in center are *Populus grandidentata*, and the tree in the left foreground is a *Robinia pseudoacacia*. A *Carya tomentosa* is situated at the far lower right corner. The *Solidago graminifolia* (only two plants) is situated in the center front foreground. The view is northeast toward PML589 stake from Higman's Camera Point #2, Map I, which is 112 feet east of the fence.



Figure 3 Photo of access trail. Site dominated by *Pinus* spp., *Liriodendron tulipifera*, *Populus grandidentata*, and *Robinia pseudoacacia*. In right foreground are *Liriodendron tulipifera*, *Populus grandidentata*, and *Robinia pseudoacacia*. In front of these is a pile of *Pinus virginiana*. In the left background are *Robinia pseudoacacia*, *Populus grandidentata*, *Pinus* spp., and *Acer rubrum*. The *Acer rubrum* is positioned beneath the leaning *Robinia pseudoacacia*. In the foreground and along the access trail, there are *Andropogon virginicus*, *Danthonia spicata*, and *Solidago graminifolia*. The view is east from Higman's Camera Point #3, Map I, which is 70 feet east of the boundary fence, along the access trail.



Figure 4 Site dominated by *Pinus virginiana*. An *Acer rubrum* limb is leaning to the right in the extreme upper left corner. A *Liriodendron tulipifera* and a *Carya tomentosa* are situated next to a log in the lower left half of this photo. This photo was taken from Higman's Camera Point #4, Map I, at the 1579 stake.



Figure 5 The tree species are predominately *Pinus* spp. and *Nyssa sylvatica*. The *Pinus* spp. are on the right and left sides of the tower. The *Nyssa sylvatica* are in the background behind the tower. One of these *Nyssa sylvatica* is situated behind the first tall *Pinus* sp. in the right foreground. The foreground herbs are predominately *Andropogon virginicus* and *Solidago graminifolia*. View is northwest from Smith's Camera Point #I, Map II, near the access trail.



Figure 6 Dominant trees, in the foreground, are *Pinus virginiana* and *Nyssa sylvatica*. The *Nyssa sylvatica* are situated in the left foreground (to the right of the *Liriodendron tulipifera* seedling) and between the center *Pinus virginiana* behind the *Quercus palustris*. The trees in the background beneath the wires are (from left to right) *Populus grandidentata* and *Robinia pseudoacacia*. The foreground herb is primarily *Andropogon virginicus*. View is west 60 feet north, following access trail, from Smith's Camera Point #I. The camera point is Smith's Camera Point #II, Map II.



Figure 7 Site dominated by *Populus grandidentata*. In front of these (from left to right) are *Liriodendron tulipifera* and *Pinus virginiana* (in lower left corner), and *Pinus virginiana* next to the *Liriodendron tulipifera* seedling, to the extreme right. There is a *Rhus* sp. among the *Liriodendron tulipifera* in the lower left corner. The foreground herbs are primarily *Andropogon virginicus* and *Solidago* spp. View is east from Smith's Camera Point #III, Map II, about 30 feet north of access trail.

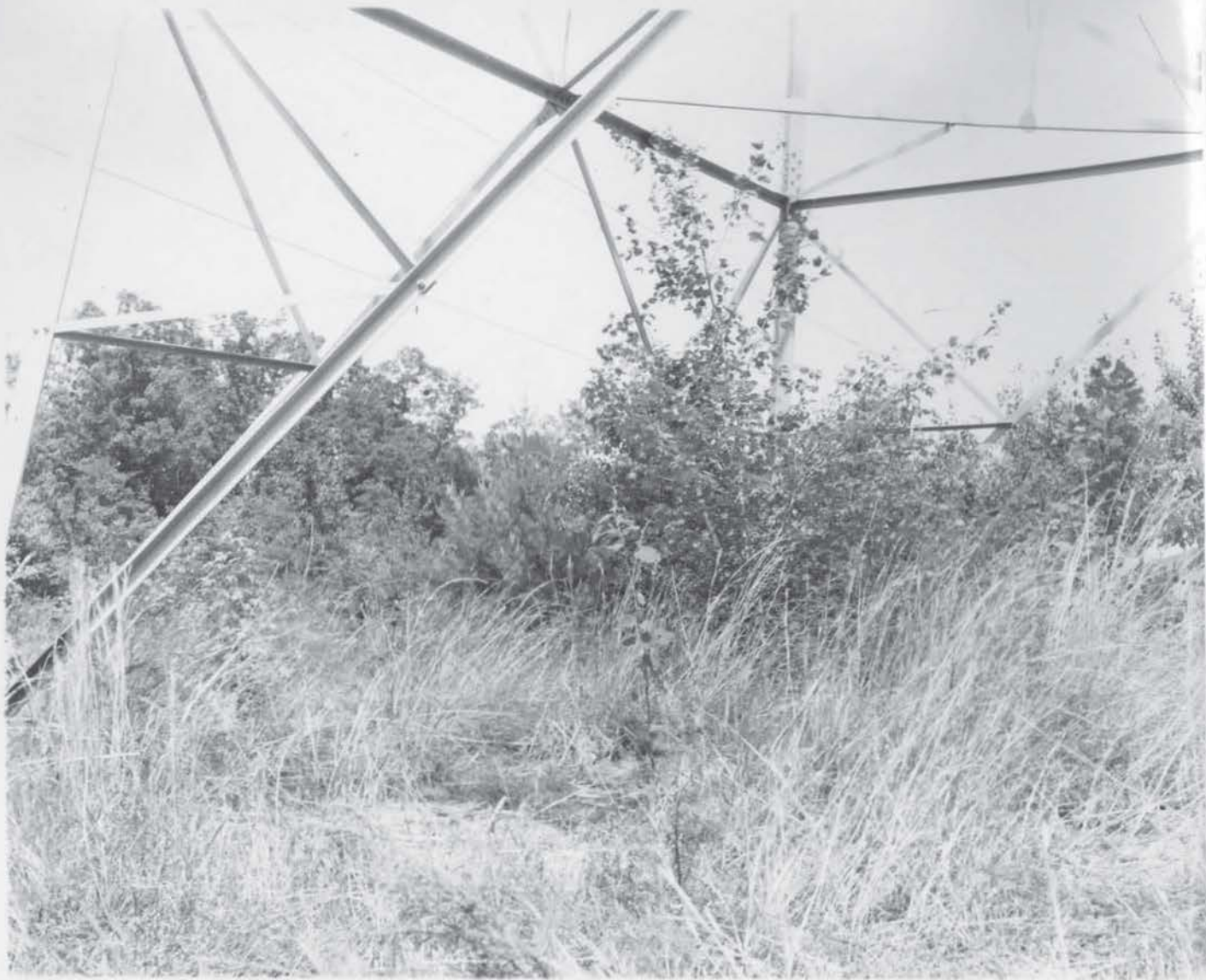


Figure 8 Site showing an *Acer rubrum* next to the far leg of tower. On the right side of this *Acer rubrum*, there is a *Liriodendron tulipifera* (beneath the tower) in front of the background *Populus grandidentata* in the right background. On the left side of this *Acer rubrum*, there is a *Pinus virginiana* and a *Liquidambar styraciflua* (beneath the diagonal beam of the tower's base). A *Populus grandidentata* is shown in front of the *Acer rubrum* among the foreground *Andropogon virginicus*. North view of tower 2365 from Smith Camera Point #IV, Map II.



Figure 9 . Photo showing the Ford tractor and Asplundh chipper which was used to chip the cut Pinus spp.
View is east from a point in front of Tower 236S, Map II.

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Figure 10 Site dominated by *Acer rubrum*, *Liriodendron tulipifera*, *Liquidambar styraciflua*, and *Pinus* spp. The *Aronia arbutifolia* is among the *Liriodendron tulipifera* in the right foreground. The *Liriodendron tulipifera* are situated in the front foreground. Behind there (from left to right) are a *Liquidambar styraciflua*, an *Acer rubrum*, and a *Pinus* sp. In the left background, next to the road, there is a *Liquidambar styraciflua*. In front of this tree, to the extreme left, there is a *Pinus* sp. In the left background, *Solidago* spp. are present. The entrance road is at the far right. This photo was taken from Higman's Camera Point #1, Map IV, at junction of entrance road and access trail; view northeast.



Figure 11 Site dominated by *Pinus* spp., *Nyssa sylvatica*, *Acer rubrum*, *Prunus serotina*, and *Liriodendron tulipifera*. The *Nyssa sylvatica* are in the far left of the photo. An *Amelanchier* tree can be seen between the *Pinus* spp. and *Liriodendron tulipifera* in front of tower. Between the *Pinus* spp., at the right of this photo, there are *Populus grandidentata*. In one of these photos, at the extreme upper right corner, there is an *Aronia arbutifolia*, which leans to the left. The foreground is primarily *Andropogon virginicus* and *Solidago* (*graminifolia*, *junceae*, and *rugosa*). View taken from Higman's Camera Point #2, Map IV, on access trail 100 feet east of tower 2375.

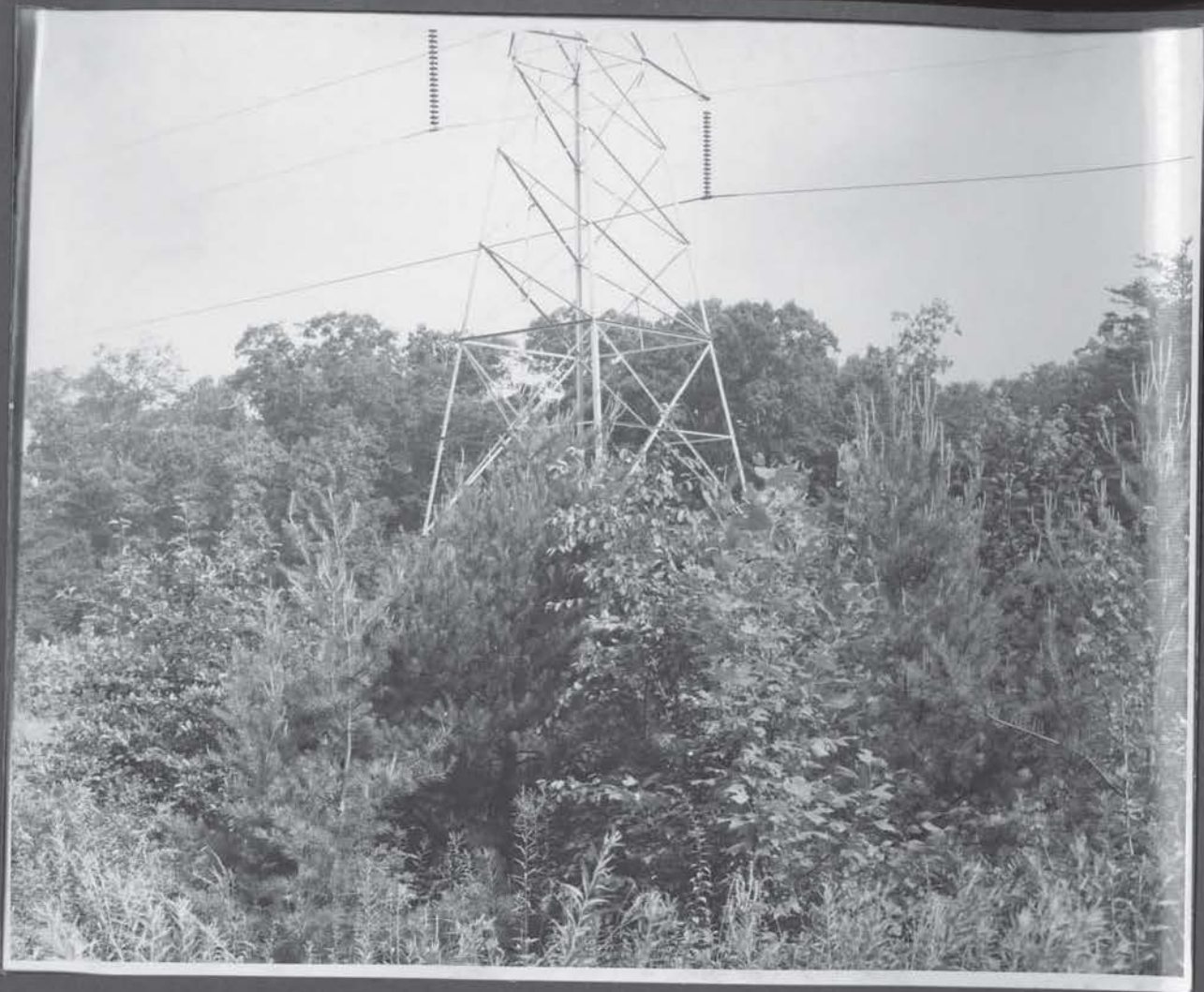




Figure 2. Photo showing three of the Pitch-pines, *Pinus rigida*, which sprouted after they had been cut below the lowest branch. Two of these *Pinus rigida* are on the right and left sides of the three men, and the other one is about 4 feet behind the spray nozzle. View is east, Map IV, on the left side of Access Trail, near entrance gate.

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 OK Figure 13 Site dominated by *Potentilla canadensis*, *Danthonia spicata*, *Andropogon virginicus*, *Lespedeza virginica*, and *Solidago* (*juncea*, *puberula*, *graminifolia*, *altissima*, and *rugosa*). Scattered among these herbs are seedlings of *Pinus* spp., *Populus grandidentata*, *Liriodendron tulipifera*, *Acer rubrum*, and *Robinia pseudoacacia*. The *Populus grandidentata*, in the background is next to the *Lespedeza bicolor*. The *Robinia pseudoacacia* is situated in the lower left corner. The bare areas, in the front foreground, are characteristic of this area. View is southeast from Higman's Camera Point #1, Map V, midway between towers 238N and 238S.



Figure 14. Site dominated by *Pinus* spp. and *Sassafras*. A number of *Sassafras* are situated among the *Pinus* spp. in the right background. An *Acer rubrum* is situated to the right of the *Liriodendron tulipifera* and the *Rhus glabra* which are situated in the lower left foreground. Beside the *Acer rubrum*, from left to right, are a leafless *Aralia spinosa*, a *Rhus glabra*, and a number of *Sassafras*. The herb in the front foreground is primarily *Danthonia spicata*. The view is southeast from Higman's Camera Point #2, Map V, beside the new access trail, 70 feet west of tower 2385.



Figure 15 The *Populus grandidentata* is situated in the left foreground. The *Pteridium aquilinum* var. *latiusculum* is situated in the right foreground. The important species other than these are primarily *Nyssa sylvatica* (in the center and right foregrounds), *Andropogon virginicus*, and *Danthonia spicata*. View is west from Higman's Camera Point #4, Map V, 60 feet west of the north corner of tower 238N.



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 Figure 16 Photo of site after pines have been cut. In the left foreground, there is a *Robinia pseudoacacia*. To the right of this *Robinia pseudoacacia*, there are *Sassafras albidum*, *Quercus falcata*, *Populus grandidentata*, and *Liriodendron tulipifera*. The small forked tree, in the lower right corner, is a *Sassafras albidum*. Most of the trees that surround this *Sassafras albidum* are *Quercus falcata*. The foreground herb is primarily *Andropogon virginicus*. The view is southwest from Higman's Camera Point #1, Map VI, at the small ditch midway between the old and new access trails and 84 feet north of the telephone pole beside the old trail.



✓ Figure 17 Photo of site after pines have been cut. The foreground trees are primarily *Sassafras albidum* and *Liquidambar styraciflua*. The *Sassafras albidum* and the *Quercus falcata* are primarily on the left side of this photo whereas the *Liquidambar styraciflua* is primarily on the right side of this photo. One *Liquidambar styraciflua* is photographed parallel with the tower. A seedling *Liriodendron tulipifera* is situated in the lower right corner. The foreground herbs are *Andropogon virginicus* and *Danthonia spicata*. The view is west from Higman's Camera Point #2, Map VI, at the same location as Higman's #1 Camera Point, Map VI, looking toward tower 238N. *should be dist. look to 238 S.*



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Figure 20 The dominant trees are primarily *Liriodendron tulipifera* and *Populus grandidentata*. The *Populus grandidentata* are in the left foreground behind the *Liriodendron tulipifera*. There is a *Nyssa sylvatica* in the lower right corner. The view is south from Higman's Camera Point #7, Map VI, at the same location as Higman's Camera Point #2, Map VI.



Figure 13 Photo of access trail and surrounding vegetation. The trees, in the upper right corner, at the summit of the slope, parallel with the towers, are *Liriodendron tulipifera*. In front of these *Liriodendron tulipifera* are a number of *Nyssa sylvatica*. Beside these (from right to left) there are *Populus grandidentata* and *Robinia pseudoacacia*. The foreground is predominately *Rubus* (blackberry), *Andropogon virginicus*, and *Danthonia spicata*. The view is southwest from Higman's Camera Point #7, 3 (7) Map VI, at the junction of the new and old access trails.



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Figure 19 Site dominated by *Liriodendron tulipifera*, *Populus grandidentata*, and *Pinus* spp. The view is southeast from Higman's Camera Point #4, Map VI, at the same location as Higman's Camera Point #1, Map VI.



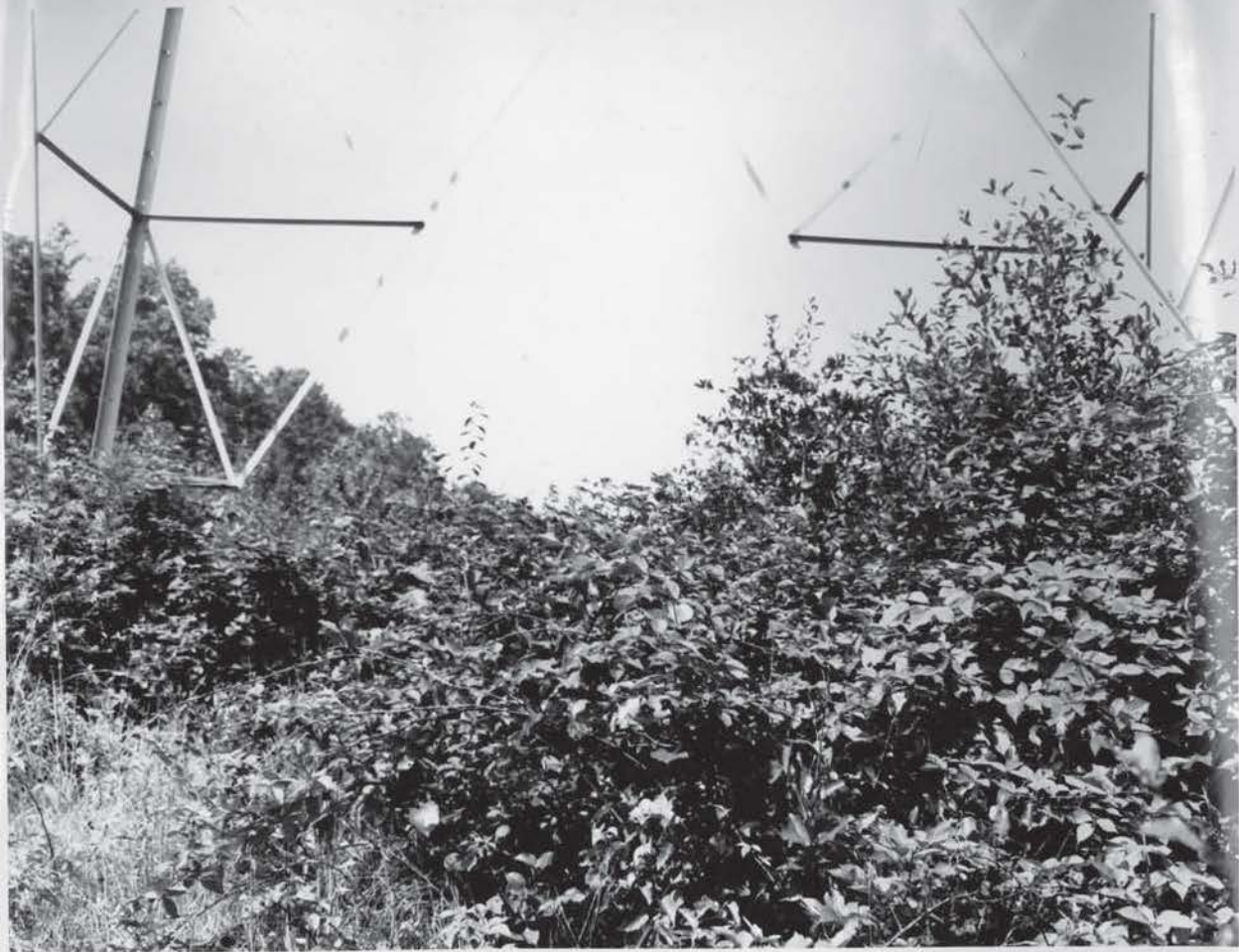
✓
 Figure 2! The primarily tree species in this photo are *Pinus* spp. (before the pines were cut), *Liquidambar styraciflua*, *Liriodendron tulipifera*, and *Nyssa sylvatica*. In the center of this photo, there is a *Liquidambar styraciflua*. On the right side of this *Liquidambar styraciflua*, there are a number of *Liriodendron tulipifera*. The foreground herbs are primarily *Andropogon virginicus*, *Eupatorium verbenaeifolium*, *Panicum* spp., *Juncus* spp., and *Carex* spp. The view is northwest from Higman's Camera Point #8, Map VI, beside the access trail and 30 feet west of the telephone pole adjacent to Holly Brook.



Figure 22. Site dominated by herbs. The herbs are *Bidens polylepis* and *Digitaria sanguinalis*. The view (of access trail) is east from Higman's Camera Point #1, May VII, beside tower 239N.



✓ Figure 2-7. Aspect of the banks and bed of Holly Brook. In the center, there is a clone of *Alnus serrulata*. The trees are *Liquidambar styraciflua*. In the foreground, at the lower right, there is a patch of *Panicum clandestinum*. The view is east from Higman's Camera Point #2, Map VII, on the line between towers 239N and 240N, about 42 feet west of the FM2589 stake.



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 Figure 2-3 Site dominated by shrubs. The shrubs are *Rubus* (blackberry), *Smilax glauca*, and *Rhus* (*glabra* and *copallina*). In the right background, in front of the *Rubus* (blackberry), there are *Nyssa sylvatica*. The left foreground herb is primarily *Andropogon virginicus*. The view is west from Higman's Camera Point #3, Map VII, at the base of tower 2395.



✓ Figure 24 Site dominated by herbs. The herbs are *Solidago* (*graminifolia*, *junceae*, *rugosa*, and *altissima*), *Potentilla canadensis*, *Ardropogon virginicus*, and *Panicum clandestinum*. In the left foreground, there is a *Populus grandidentata* clone. The herb in front and along side this *Populus grandidentata* clone is *Lespedeza virginica*. Photo was taken from Higman's Camera Point #2, Map IX, about 42 feet from the forest margin. This photo represents Higman's Camera Points #1 and #2, Map IX. The view is northeast across service road.



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 Figure 2-5 View of upland site showing a *Populus grandidentata* tree in the center of photo. Other *Populus grandidentata* are in the left center foreground and the extreme far right background. A *Sassafras albidum* is situated on the right side of the *Populus grandidentata* in front of tower. The herbs are *Andropogon virginicus*, *Potentilla canadensis*, and *Solidago* (*graminifolia* and *junceae*). The nearest towers (from left to right) are 240S and 240N. The view is west from Higman Camera Point #3, Map IX, about 30 feet north of the PM3572 stake.



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Figure 26 Site occupied by a clone of *Prunus serotina* and *Robinia pseudoacacia* in right foreground. The shrubs are *Rubus* (blackberry) and the herbs are *Poa pratensis* and *Solidago graminifolia*. The Laurel-Bowie road appears in the background. The view is southeast from Higman's Camera Point #1, Map XII, at the corner of tower 251N.



Figure 17. Site dominated by *Ambrosia artemisiifolia* (with scattered *Solidago graminifolia* and *juncea*). The shrub in foreground is *Rubus* (blackberry). The *Solidago* spp. is situated in the front foreground in front of the *Ambrosia artemisiifolia*. One of these *Robinia pseudoacacia* is situated in the left front foreground. The view is south from Higman's Camera Point #3, Map XII, on the access trail opposite PM4419 stake.



✓ ²⁴ Figure 24 Site dominated by *Ambrosia artemisiifolia* (with scattered *Poa pratensis* and *Rubus* (blackberry)). In the background and scattered among the herbs, there are *Robinia pseudoacacia*. The background *Robinia pseudoacacia* forms a hedge along the fence. The view is north from Higman's Camera Point #4, Map XII, at the same location as Higman's Camera Point #3, Map XII.



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 Figure ²⁹ Photo of *Prunus serotina* hedge in front of drainage pond. In the center foreground, there is a *Quercus phellos*. At the extreme left, at the base of the *Prunus serotina* hedge, there is a *Pinus* sp. The herbs (in foreground) are *Andropogon virginicus*, *Danthonia spicata*, and *Lespedeza virginica*. The herb next to the base of the *Prunus serotina* hedge, in the right foreground, is *Panicum clandestinum*. View is northwest from Higman's Camera Point #1, Map XIV near access trail 40 feet from gate.



✓ ²¹ Figure 2. Photo of drainage pond showing *Nuphar luteum*. View is northwest from Smith's Camera Point #II, Map XIV, about 20 feet from Higman's Camera Point #2, Map XIV, and 30 feet from Higman's Camera Point #2, Map XIV. The photo was taken from inside the *Prunus serotina* hedge. 7.



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 Figure 37. Site dominated by *Prunus serotina*, *Pinus* spp., *Liquidambar styraciflua*, and *Sassafras albidum*. In front foreground there are *Prunus serotina*. In the right background, there are *Pinus* spp., *Liquidambar styraciflua*, and *Sassafras albidum*. The *Sassafras albidum* are in back of the *Pinus* spp., on the right side of this photo, between the *Liquidambar styraciflua*, the tall tree tree in the center is a *Prunus serotina* situated behind the tallest *Pinus* sp. In the left background, there is a *Quercus alba* in front of the *Liquidambar styraciflua*. Another *Quercus alba* is situated behind the tallest *Pinus* sp. on the left side of the tallest *Prunus serotina*. The herb next to the small *Pinus* sp., furtherest to the left is *Lespedeza virginica*. View is southeast from Higman's camera point # 4, Map XIV, near the junction of the Access Trail and the Cash Lake Trail.



Figure 2. Site dominated by *Prunus serotina* and *Populus grandidentata*. The *Populus grandidentata* is on the right side of tower. A low shrubby *Liquidambar styraciflua* is situated in front of these *Populus grandidentata*. Another *Liquidambar styraciflua* is situated in front of the *Prunus serotina* on the right side of this photo. The *Prunus serotina* are in front of the tower and on the right side of the *Populus grandidentata*. The herbs (in foreground) are *Andropogon virginicus*. In the background, there are *Lespedeza virginica* and *Solidago* (*graminifolia* and *juncea*). The view is northwest midway between Higman's camera points # 3 and # 5, Map XIV. Higman's camera point # 3 is 28 feet southwest and 42 feet northeast of tower 252N. Higman's camera point # 5 is midway between the towers and 15 feet southeast of tower 252S.



Figure 33. Site dominated by *Pinus* spp., *Sassafras albidum*, *Nyssa sylvatica*, *Liquidambar styraciflua*, and *Prunus serotina*. The trees in the very front left foreground are *Nyssa sylvatica*. Just behind these, there are *Liquidambar styraciflua*, and *Quercus* spp. In the extreme right corner, there is a *Populus grandidentata*, beside the *Nyssa sylvatica* and in front of the *Liquidambar styraciflua* seedlings. The foreground shrubs are *Vaccinium* spp. and *Rhus glabra* and *copallina*. The herb is *Andropogon virginicus*. View is south-east from Higman's camera point # 1, Map XV, 56 feet along trail from fork (see map.).



✓ ¹²⁵
 Figure 44. The *Pinus* spp. have been cut. This site dominated by *Pinus* spp., *Populus grandidentata*, *Prunus serotina*, *Liquidambar styraciflua*, *Nyssa sylvatica*, and *Quercus* spp. View is northwest from camera point # 2, at center of line and bank of tributary ditch.



Figure 35. Photo showing foreman Bill Bishop, Asplundh Tree Expert Company, and tractor. This site is dominated by *Pinus* spp., *Nyssa sylvatica*, and *Populus grandidentata*. The pines are cut. The *Nyssa sylvatica* are in the center and right foreground. The *Populus grandidentata* are in far left foreground. The shrubs are primarily *Clethra alnifolia* and *Vaccinium* spp. View is west from Higman's camera point # 3, Map XV, 36 feet from Access Trail at a point 42 feet from the fork.

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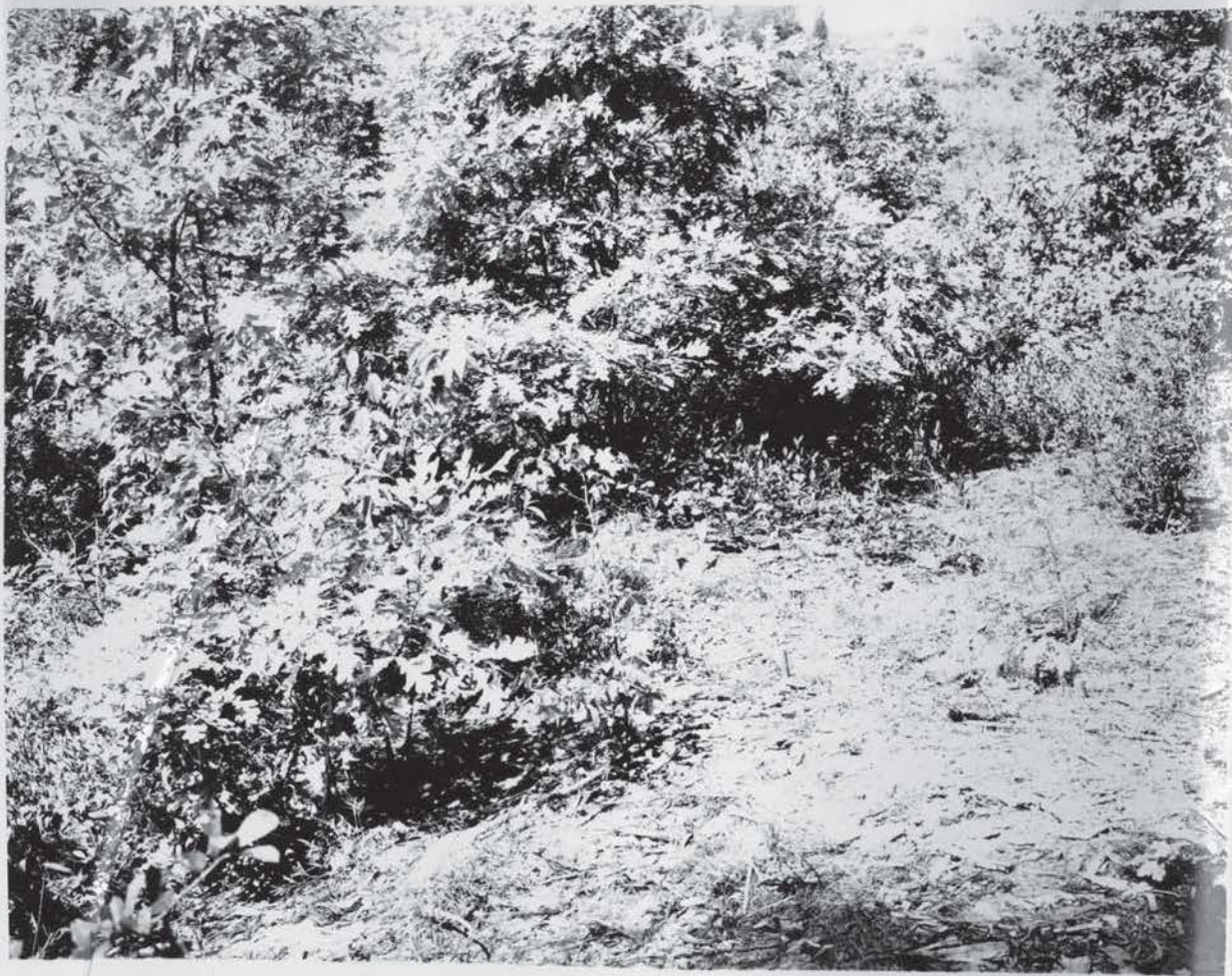
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 Figure 26. The *Pinus* spp. have been cut. This site dominated by *Pinus* spp., *Nyssa sylvatica*, and *Quercus* spp. There are in the background behind the foreground *Clethra alnifolia* and *Vaccinium* spp. View is southeast from Higman's camera point # 4, 60 feet from the Access Trail and 28 feet from Higman's camera point # 3.



✓ ¹²¹ Figure 37. Site dominated by *Pinus* spp. and *Sassafras albidum*. Note *Pinus* spp. stumps in right foreground. In the left foreground there are *Pinus* spp. beneath the *Sassafras albidum*. In the right background *Quercus* spp. are present. The shrubs are *Vaccinium* spp. and *Rhus* (*glabra* and *copallina*). The herb is *Andropogon virginicus*. This photo represents Higman's camera points # 2 and # 5, Map XV. The view is northwest from Higman's camera point # 5 ^{SEP 20 1961} at edge of cask about 95 feet along the bank from the junction of gully and Access Trail.



Figure 30. Site dominated by *Pinus* spp., *Sassafras albidum*, *Prunus serotina*, *Acer rubrum*, and *Nyssa sylvatica*. The pines have been cut, but the *Sassafras albidum*, *Prunus serotina* and *Nyssa sylvatica* still remain. There is a *Quercus alba* in the front left foreground. The *Nyssa sylvatica* are behind the *Quercus alba* in the left foreground, beside the *Sassafras albidum*. Other *Nyssa sylvatica* are in front of the background, *Acer rubrum*, and behind the *Sassafras albidum* on the left side of the *Prunus serotina*. View is northeast from Higman's camera point # 6, Map XV, at the same location as Higman's camera point # 5, Map XV.



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 Figure 37. This site dominated by *Quercus alba*, *Pinus* spp., and *Liquidambar styraciflua*. The *Quercus alba* are primarily situated in center and lower left foreground. The *Liquidambar styraciflua* is situated in the upper left and right corners. The shrubs are primarily *Vaccinium* spp. and *Gaylussacia baccata*. These are visible beneath the *Quercus alba* and *Liquidambar styraciflua* in the upper right foreground and the extreme lower left foreground. The background tower is 2528. The view is northwest from Higman's camera point # 7, Map XV, at forest margin opposite fork in Access Trail.



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Figure 40. Site dominated by *Pinus* spp., and *Nyssa sylvatica*. The *Pinus* spp. have been cut. View is southeast from Higman's camera point # 8, Map XV, at same location as Higman's camera point # 7, Map XV.



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 Figure 42. Site dominated by *Prunus serotina* and *Populus grandidentata*. The *Prunus serotina* are at base of tower and the *Populus grandidentata* are on the right side of photo. The shrub is a *Rubus* (blackberry), and the herbs are *Andropogon virginicus* and *Solidago graminifolia*. View is northeast from Higman's camera point # 9, Map XV from Access Trail, 45 feet south of tower 252S.



✓ ⁴² Figure 2. Site dominated by *Pinus* spp. (There have been cut *Pinus* spp.) Note the stumps shown at the lower right of this photo. View is northeast from Higman's camera point # 1, Map XV I, at center of line.



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 Figure 43. Site dominated by *Pinus* spp. A dense stand of *Pinus* spp. are in right background. On the left side of the tower, there are *Acer rubrum*, *Liriodendron tulipifera*, and *Populus grandidentata*. The foreground herb is *Solidago graminifolia*. View is south from Smith's camera point # 2, Map XVI, about 150 feet north of Tower 2535.



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 Figure 44. Head-on view of Spoil heap left by gravel pit excavation, showing *Pinus* spp. dominant. The small tree in right foreground is a *Sassafras albidum*. On the other side of this *Sassafras albidum* (from right to left) there are a *Pinus* sp., a *Quercus phellos*, and a *Liquidambar styraciflua*. The *Quercus phellos* is behind the *Sassafras albidum* seedling, and in front of the *Acer rubrum*. The tall herbs in the front foreground are *Lespedeza capitata*. View is southwest from Higman's camera point # 3, Map XVI, at a point 20 feet from the spoil heap and 15 feet from the fence.





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 Figure 28. Site dominated by *Pinus* spp. and *Quercus* spp. The foreground *Pinus* spp. have been cut ~~down~~^{over}; whereas the background *Pinus* spp. have not been cut. The oaks (mostly *Quercus falcata*) are mixed ~~in~~^{among} with the *Pinus* spp. A *Populus grandidentata* is situated in the upper left corner. The shrubs (not visible) are primarily *Glauxia alnifolia* and *Vaccinium* spp. View is ~~southeast~~^{North 105° E} from Higman's camera point # 4, Map XV, 60 feet from the Access Trail and 28 feet from Higman's camera point # 3, Map XV.
 which is 20 feet west of tower 253N.

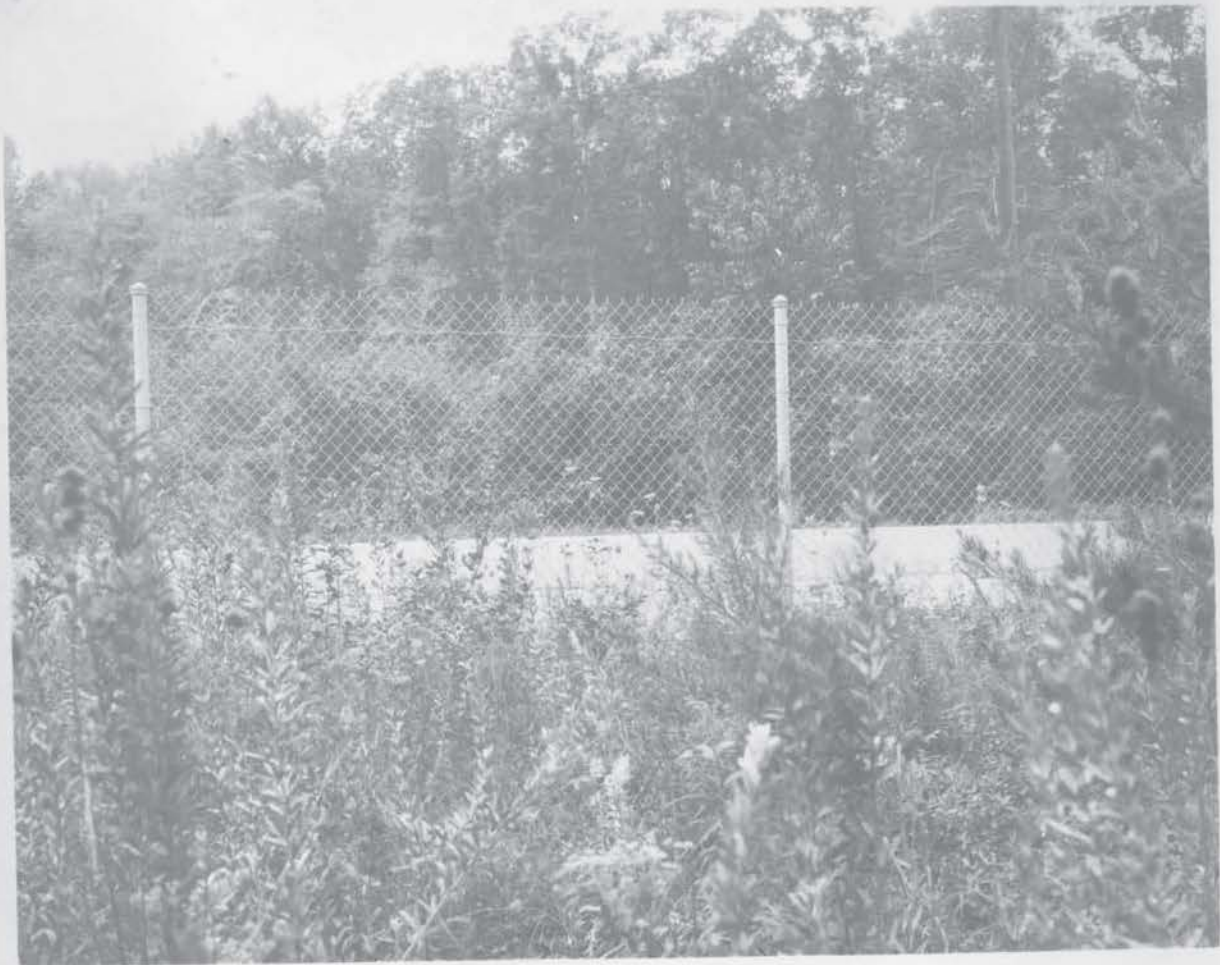


Figure 46. Site dominated by *Andropogon virginicus* and a small trailing *Rubus* (blackberry). The tall herbaceous herb is the *Lespedeza capitata*. Next the fence, there are *Bidens polylepis* and *Dacus carota*. The *Rubus* (blackberry) is in right foreground, between the *Pinus* spp., and behind the *Lespedeza capitata*. At least two *Pinus* spp. seedlings are in right foreground. Taken from Higman's camera point # 5, Map XVI, at summit of spoil heap.



Figure 47. Two photos are used to describe this site. This site is dominated by *Pinus* spp. and *Liquidambar styraciflua*. The *Pinus* spp. are located in the background and on the right side of these photos, and the *Liquidambar styraciflua* is located in the left and center foregrounds of these photos. A *Prunus serotina* is located between the *Liquidambar styraciflua* and the *Pinus* spp. The herbs are primarily *Andropogon virginicus* and *Danthonia spicata*. The view is north from Higman's camera point # 6, Map XVI, on side of spoil heap.



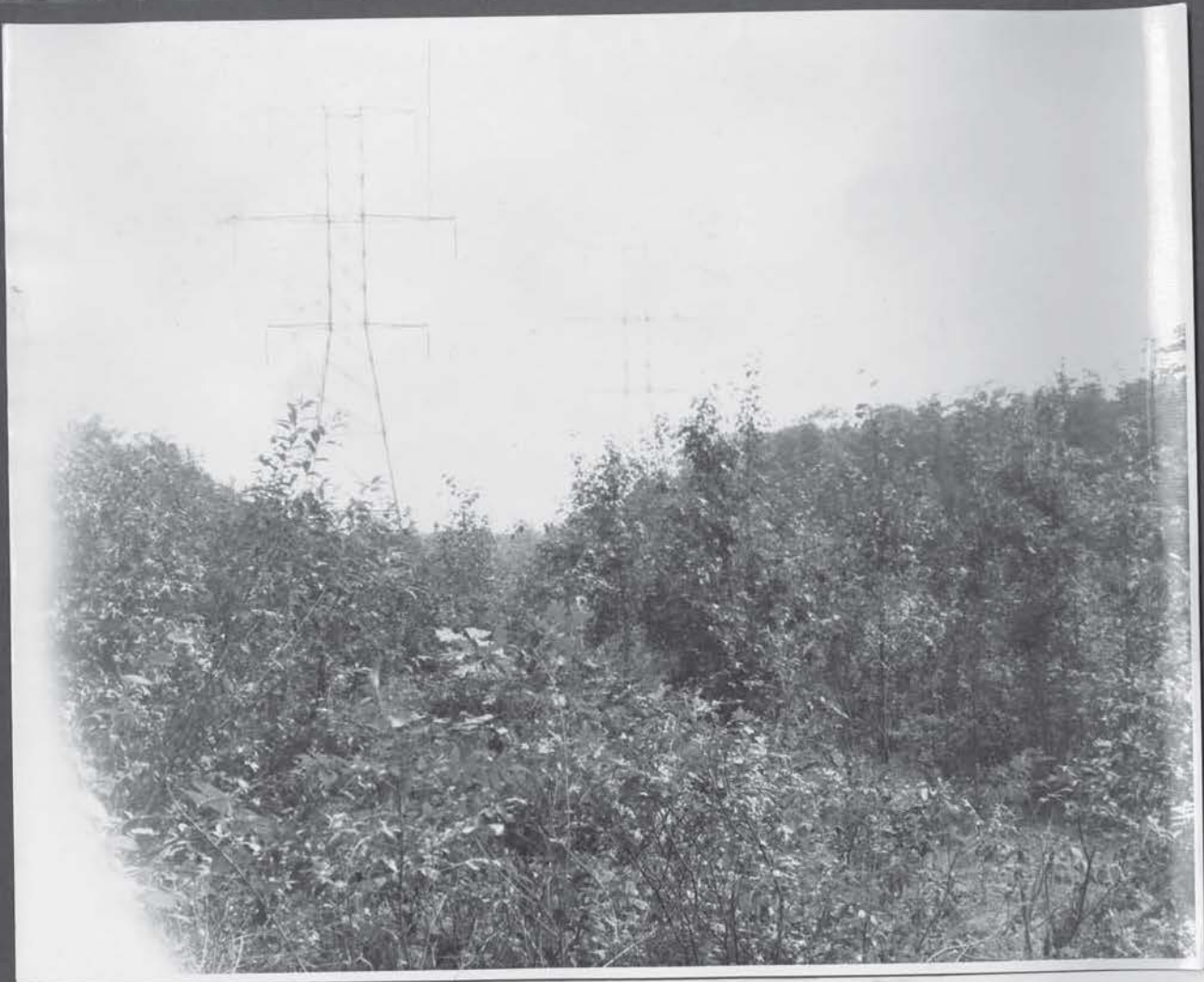


Figure ⁴⁹~~48~~. View showing *Populus grandidentata* as the dominant tree species. These are primarily located in the center and right foregrounds. The *Liquidambar styraciflua* is primarily located in the extreme right and left foregrounds and in the background. There is a *Quercus alba* in the center foreground. The shrub in left foreground is a *Rhus copallina*. The herbs are *Andropogon virginicus*, *Solidago graminifolia*, and *Juncus effusus*. The background is dominated by *Pinus* spp. View is south from Higman's camera point # 3, Map XVII, about 42 feet south of tower 254N.



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Figure 49. Photo showing the cutting of *Pinus* spp. with a power saw. View is west at a point near the junction of Maps XVII and XVIII.



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1970*
 Figure 50. Photos showing the chipping of cut Pinus spp. View is ~~west~~

South, along access + trail
 at a point near the junction
 of Maps XVII and XVIII.







Figure 51. This site dominated by *Eragrostis* sp., *Danthonia spicata*, *Solidago graminifolia*, *Erechtites heracifolia*, *Bidens polylepis*, and *Juncus effusus*. The tree species are *Nyssa sylvatica*, *Liquidambar styraciflua*, *Acer rubrum*, and *Pinus* sp. Beside the left leg of the tower, there are a *Nyssa sylvatica* (on the left side) and a *Liquidambar styraciflua* (on the right side). In the right and left backgrounds, there are more of these species. The *Liquidambar* is primarily in the right background, and the *Nyssa sylvatica* and the *Acer rubrum* is primarily in the left foreground. The view is southeast from Higman's camera point # 1, Map XVIII, beside the old Access Trail and about 60 feet northwest of tower 255N.



Figure 32. Site dominated by *Pinus* spp. Scattered among the *Pinus* spp. stumps are this site's co-dominants *Populus grandidentata*, *Nyssa sylvatica*, and *Liquidambar styraciflua*. The *Populus grandidentata* are primarily located in the background. A *Liquidambar styraciflua* is located in the extreme right foreground. View is south from Higman's camera point # 2, Map XVIII, about 75 feet east of Access Trail. Towers in the distance are 255N and 255S.



Figure 53. Site dominated by *Populus grandidentata* and *Liquidambar styraciflua*. The *Populus grandidentata* are situated in the right and left backgrounds. The *Liquidambar styraciflua* is situated in the corner next the *Populus grandidentata*. The herbs are primarily *Andropogon virginicus*, *Solidago graminifolia*, and *Bidens polylepis*. The *Solidago graminifolia* and *Bidens polylepis* are in the front foreground. The flowering plants in the left center foreground are the *Bidens polylepis*. The tallest tree in the center is a *Salix nigra*. View is north from Higman's camera point # 3, Map XVIII, on the new Access Trail opposite tower 255N.