

Appendix N

INVASIVE SPECIES

INVASIVE SPECIES REPORT FOR RD BAILEY LAKE, JUSTICE, WV; AND BLUESTONE LAKE HINTON, WV

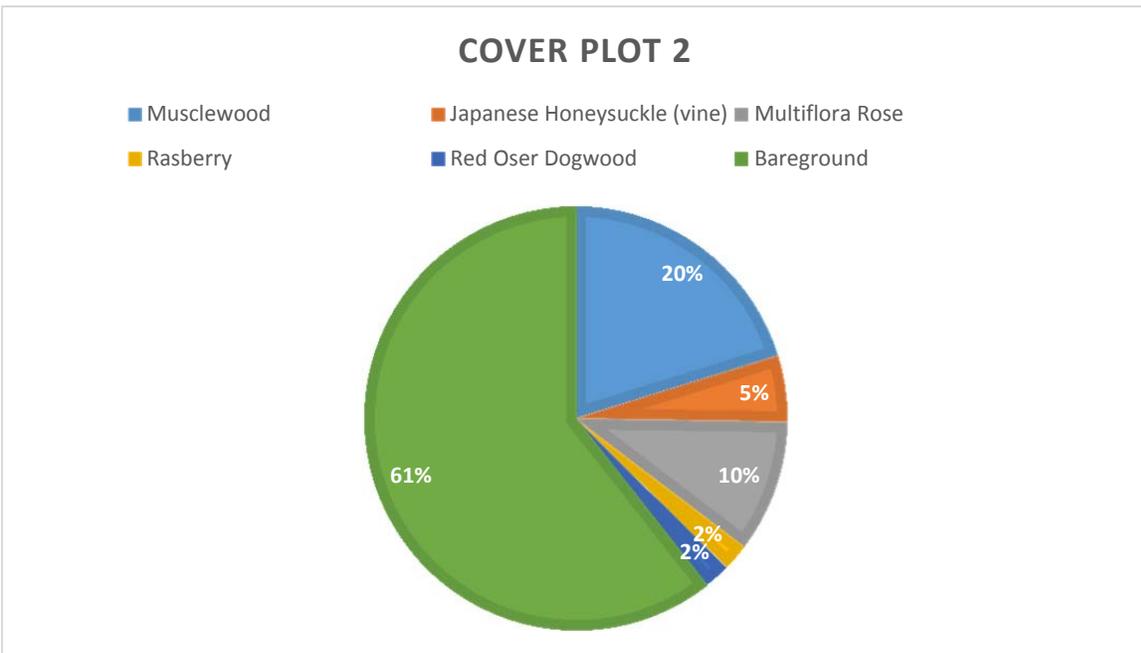
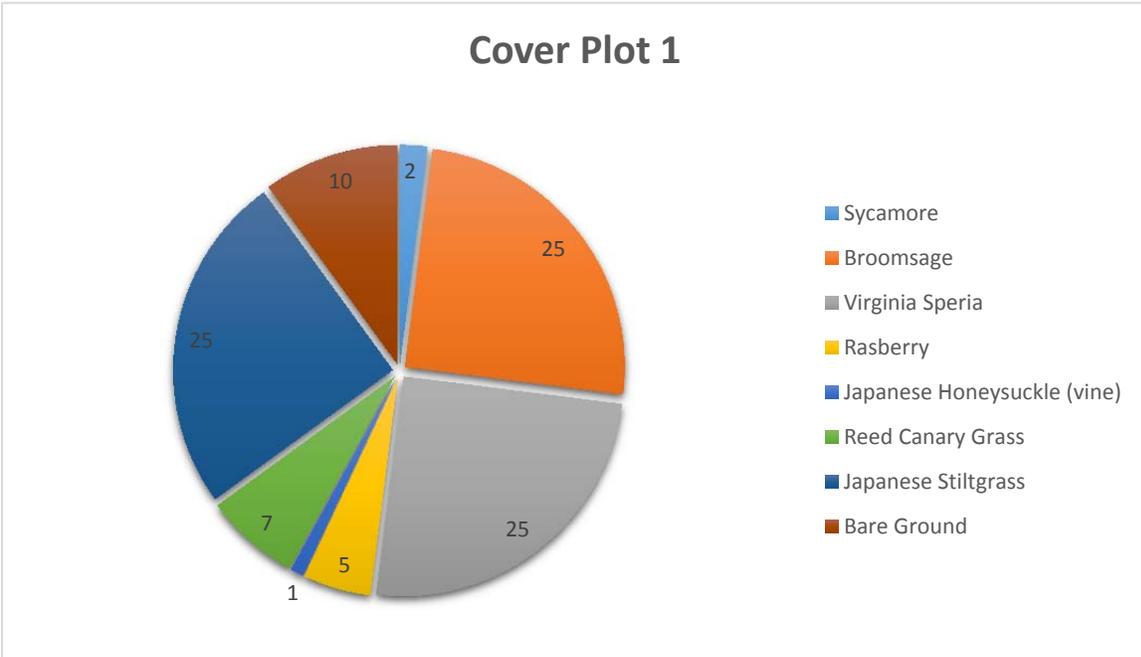
Site visits to RD Bailey Lake in Justice, West Virginia and Bluestone Lake in Hinton, West Virginia were conducted on 5 and 6 December 2016, to determine the effects of a flashy pool versus the growth of invasive species. December is out of the growing season and not the ideal time to identify plant species, however in each plot a small percentage was given to unidentified vegetation to respectively account for those species that had already started to decompose. The plot locations were randomly picked from areas that had the best access due to time restraints and a plot diameter of 10 feet. The first plot testing was conducted approximately 5 to 10 feet in elevation from the lakes summer pool elevation, while the second plot was conducted at approximately 15 to 20 feet in elevation from the summer pool elevation.

It is to be concluded from plot results that the invasive species are already present and make up a large percentage of the vegetation cover with the first ten (10) feet of elevation around both of the sample lakes edges. In addition, the invasive community remains relatively the same at both lakes. The invasive community seems to also extend into the higher elevation of up to twenty (20) feet. With RD Bailey Lake pool levels being subject to rapid rise and fall. Frequently high pool levels may be maintained for extended time frames. It seems that even Bluestone's pool of much lower lake levels and shorter periods of pool rise still consistently give invasive species the opportunity to grow. Changing the pool of Bluestone to a more flashy lake and retaining the water at a longer period of time will most likely not change or have a significant effect on the invasive communities. The invasive communities are already developed and the seed bank is already established within the pool.

The below diagrams, maps, and photographs show the representative plots and locations. The charts show the percentage of cover a species has within the plot not the amount of times it occurred within the plot.

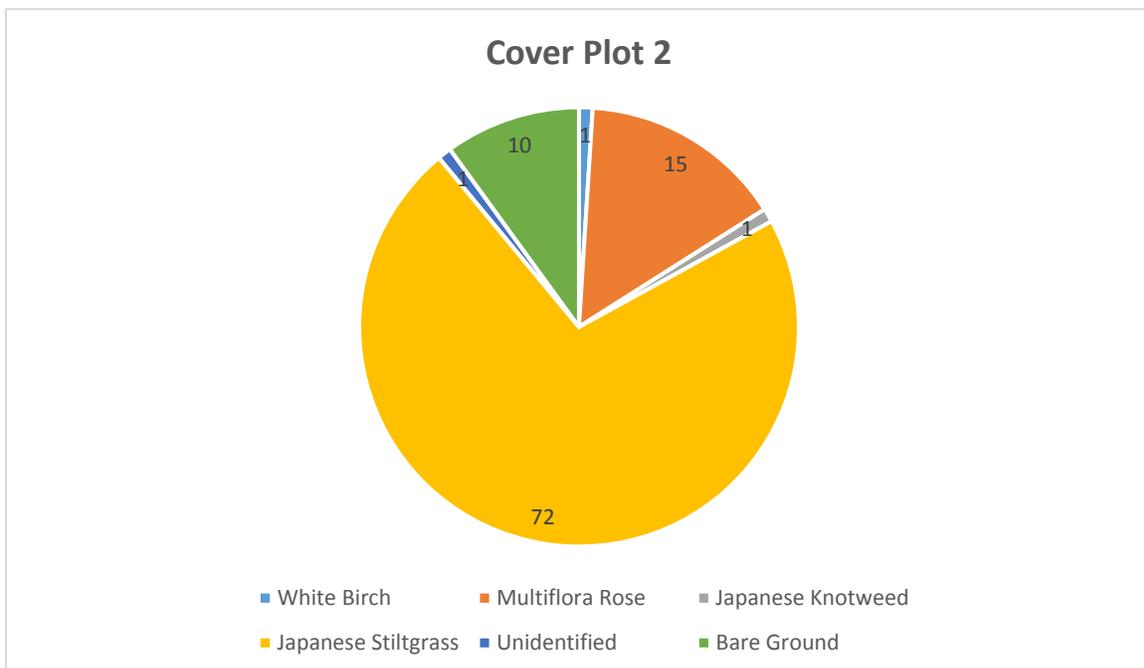
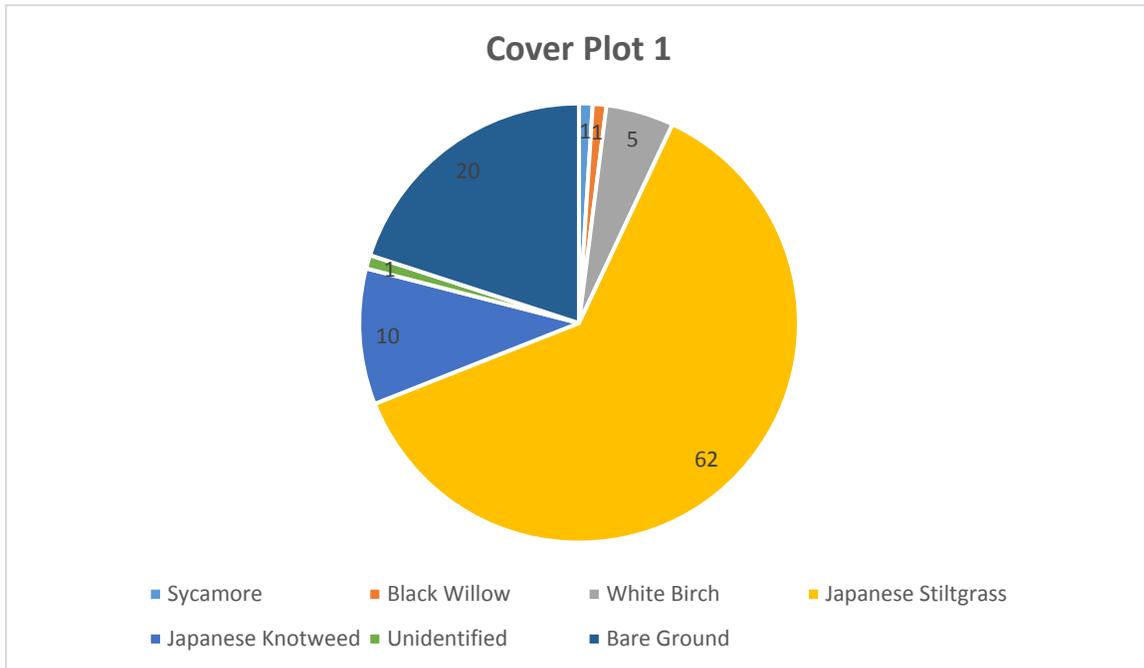
RD Bailey Lake Dam Site Cover Plots

Plot one was taken within the historic rise of approximately 5 to 10 feet of elevation rise above normal summer pool elevation. The radius of the sampling plot was 10 feet. The plot indicated out of 100 percent cover that approximately 76 percent of the area consisted of invasive species. A plot outside of the normal rise of 5 to 10 feet in elevation was also conducted at approximately 15 to 20 feet of elevation. Cover plot 2 only showed 49 percent total cover of vegetation with 15 percent being invasive species.



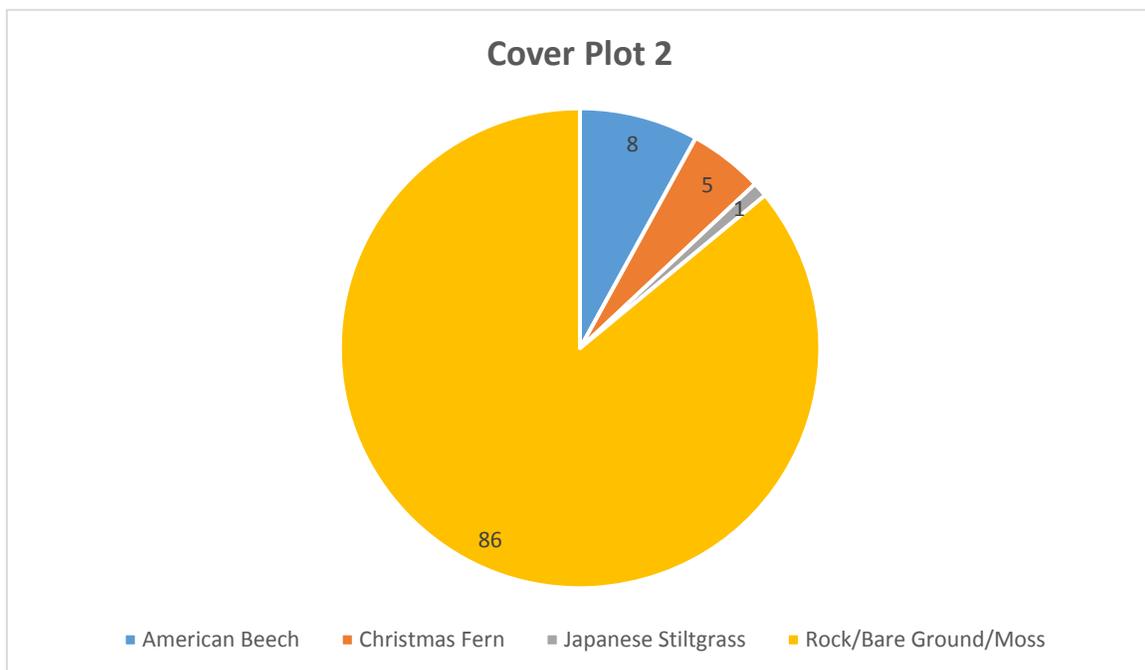
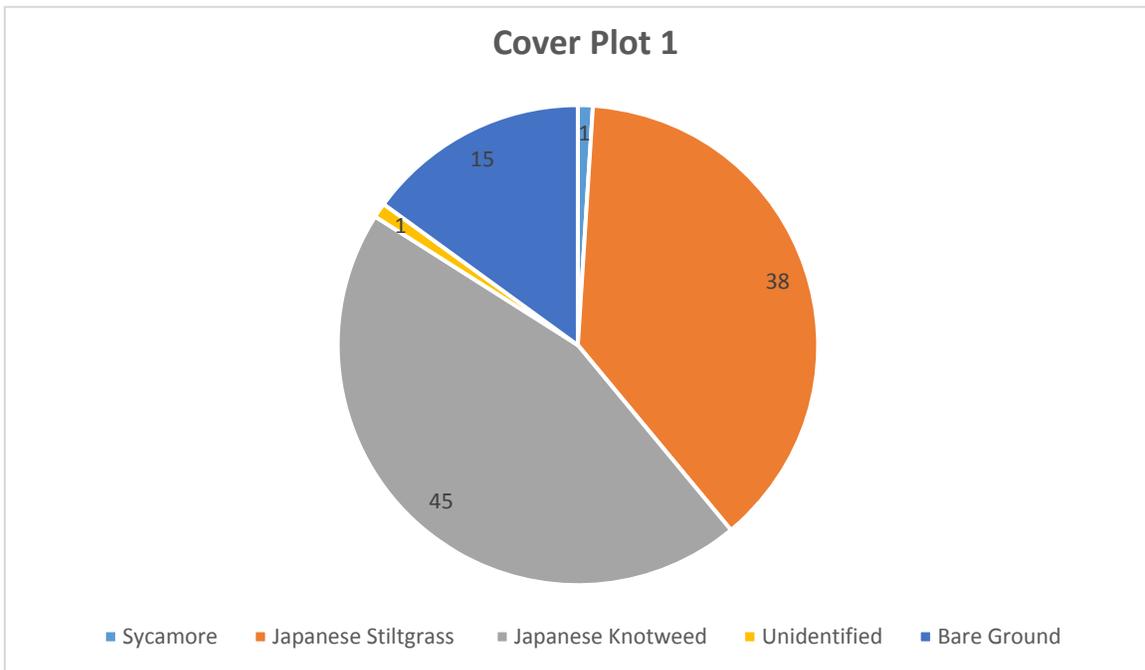
RD Bailey Lake Big Branch Cover Plots

Plot one was taken within the historic rise of approximately 5 to 10 feet of elevation rise above normal summer pool elevation. The radius of the sampling plot was 10 feet. The plot indicated out of 100 percent cover that approximately 72 percent of the area consisted of invasive species. A plot outside of the normal rise of 5 to 10 feet in elevation was also conducted at approximately 15 to 20 feet of elevation. Cover plot 2 showed approximately 90 percent total cover of vegetation with 88 percent being invasive species



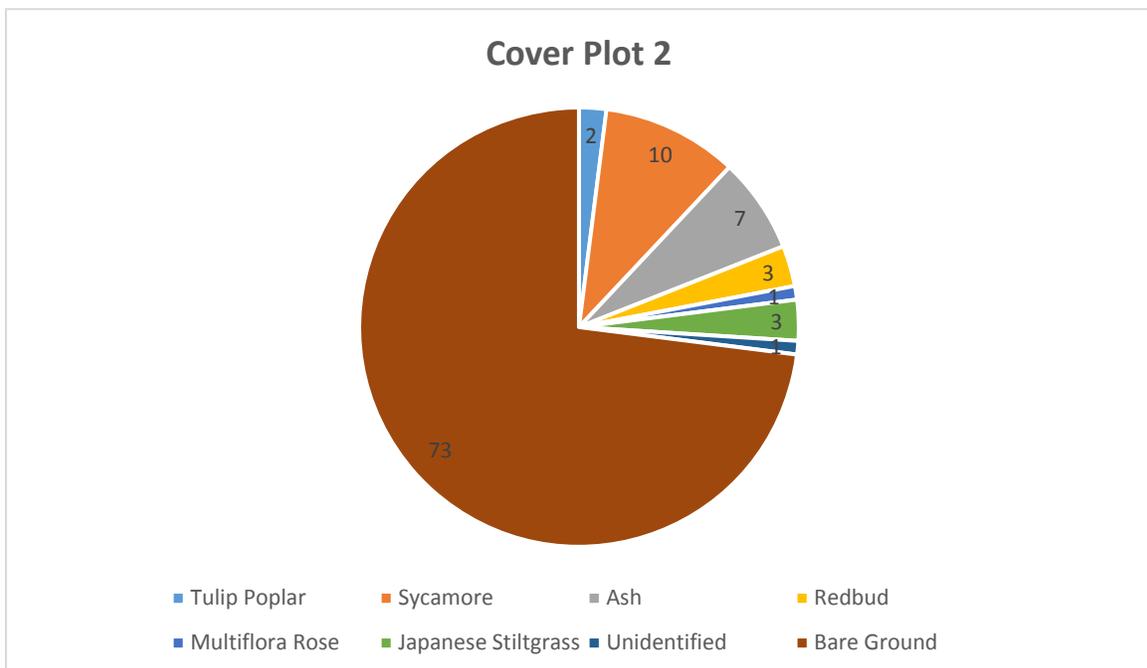
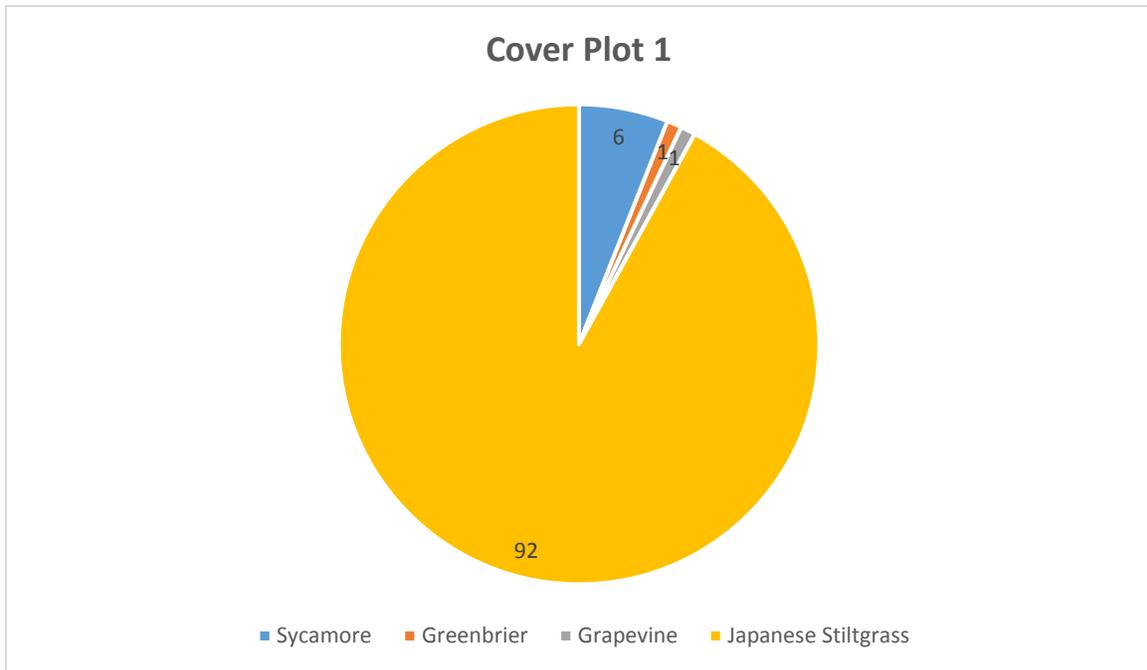
RD Bailey Lake Big Branch Site #2 Cover Plots

Plot one was taken within the historic rise of approximately 5 to 10 feet of elevation rise above normal summer pool elevation. The radius of the sampling plot was 10 feet. The plot indicated out of 100 percent cover that approximately 83 percent of the area consisted of invasive species. A plot outside of the normal rise of 5 to 10 feet in elevation was also conducted at approximately 15 to 20 feet of elevation. Cover plot 2 only showed approximately 14 percent total cover of vegetation with 1 percent being invasive species.



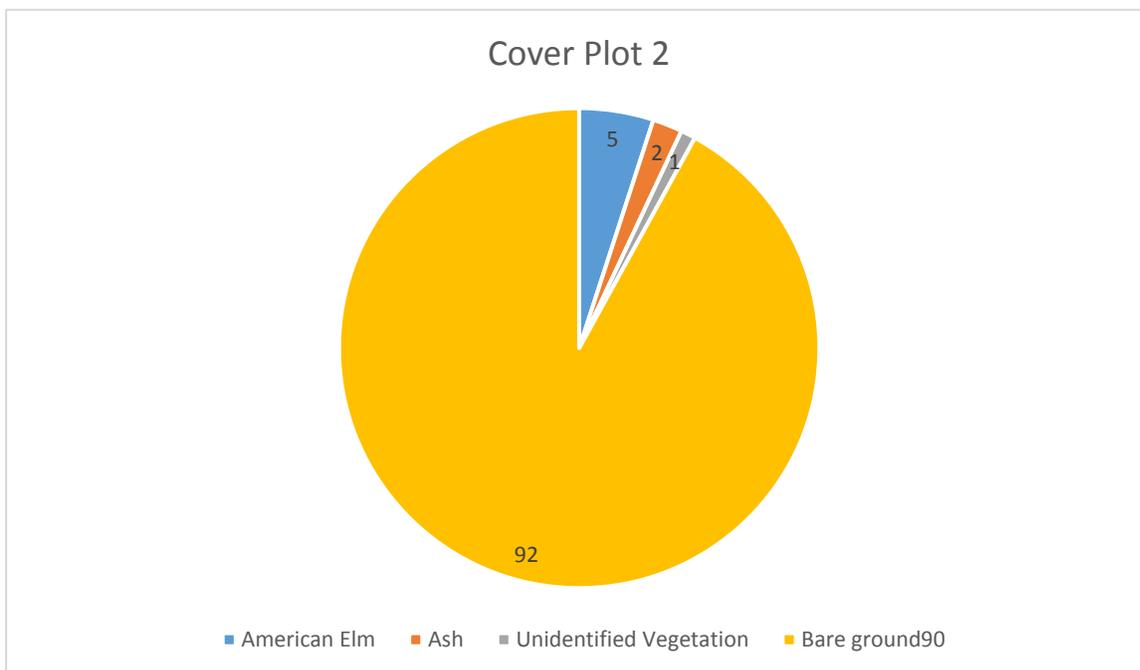
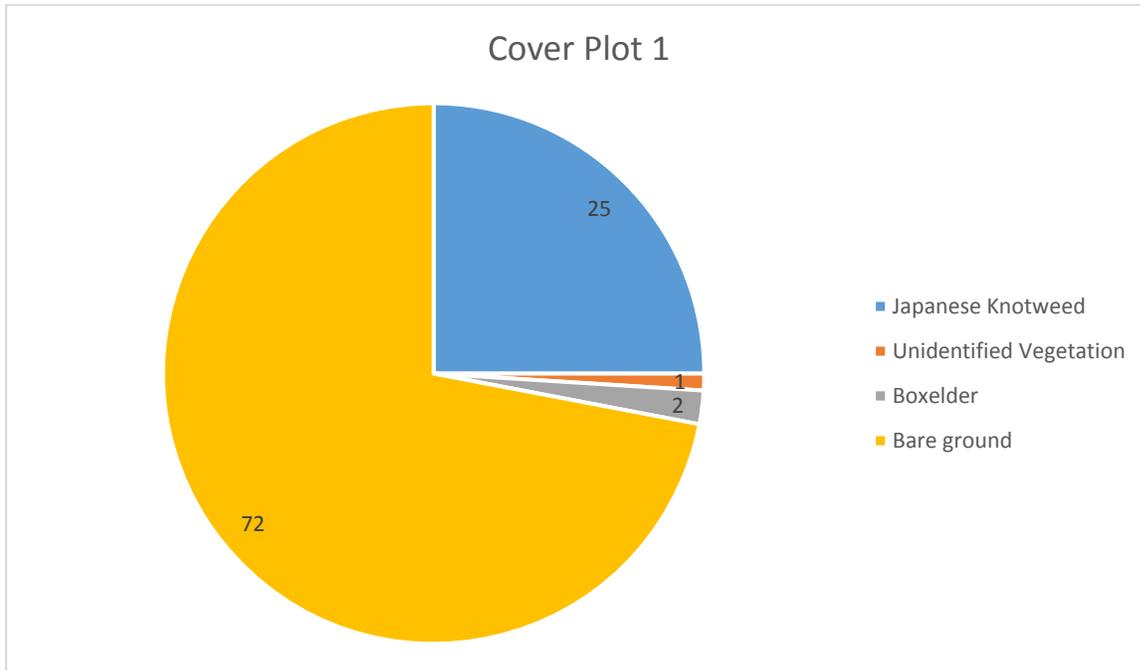
RD Bailey Lake Guyandotte Point Cover Plots

Plot one was taken within the historic rise of approximately 5 to 10 feet of elevation rise above normal summer pool elevation. The radius of the sampling plot was 10 feet. The plot indicated out of 100 percent cover that approximately 92 percent of the area consisted of invasive species. A plot outside of the normal rise of 5 to 10 feet in elevation was also conducted at approximately 15 to 20 feet of elevation. Cover plot 2 only showed approximately 27 percent total cover of vegetation with 4 percent being invasive species.



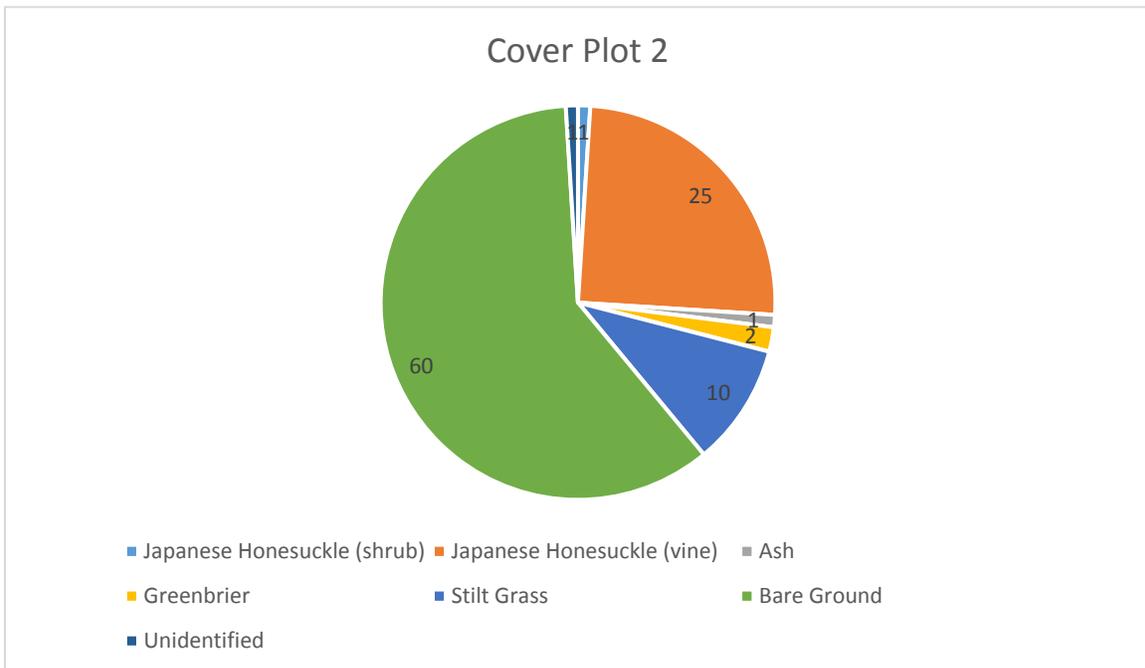
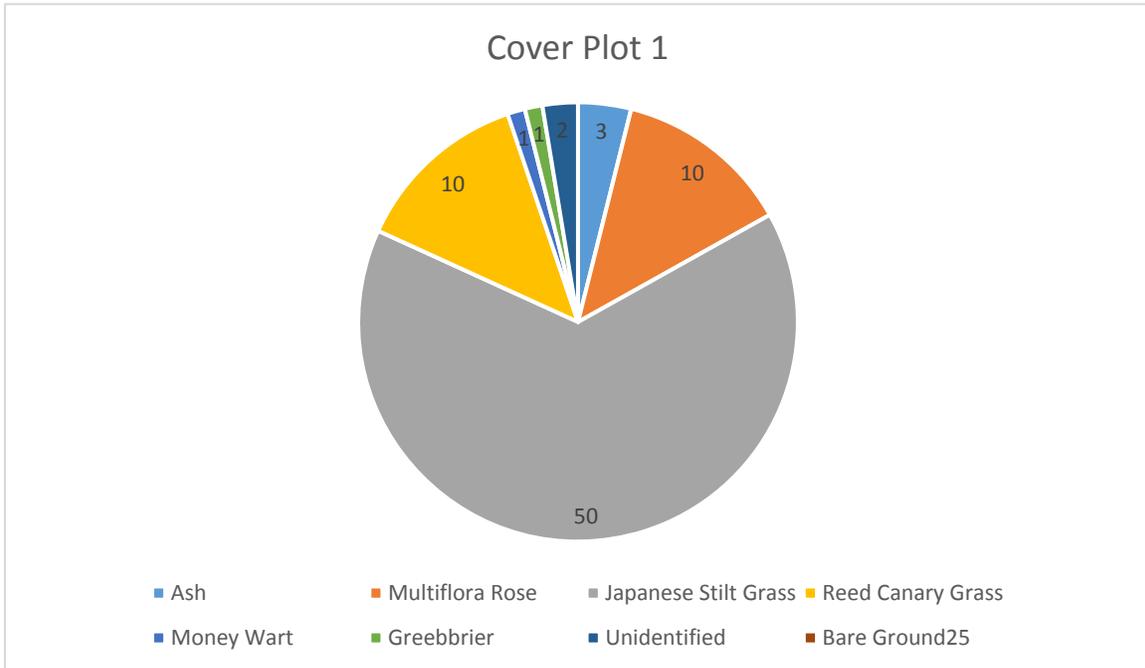
Bluestone Dam Site Cover Plots

Plot one was taken within the historic rise of approximately 5 to 10 feet of elevation rise above normal summer pool elevation. The radius of the sampling plot was 10 feet. The plot indicated out of 100 percent cover that approximately 72 percent of the area had no cover and of the remaining 25 percent was covered with invasive species. A plot outside of the normal rise of 5 to 10 feet in elevation was also conducted at approximately 15 to 20 feet of elevation. Cover plot 2 only showed 8 percent total cover of vegetation with no invasive species being identified.



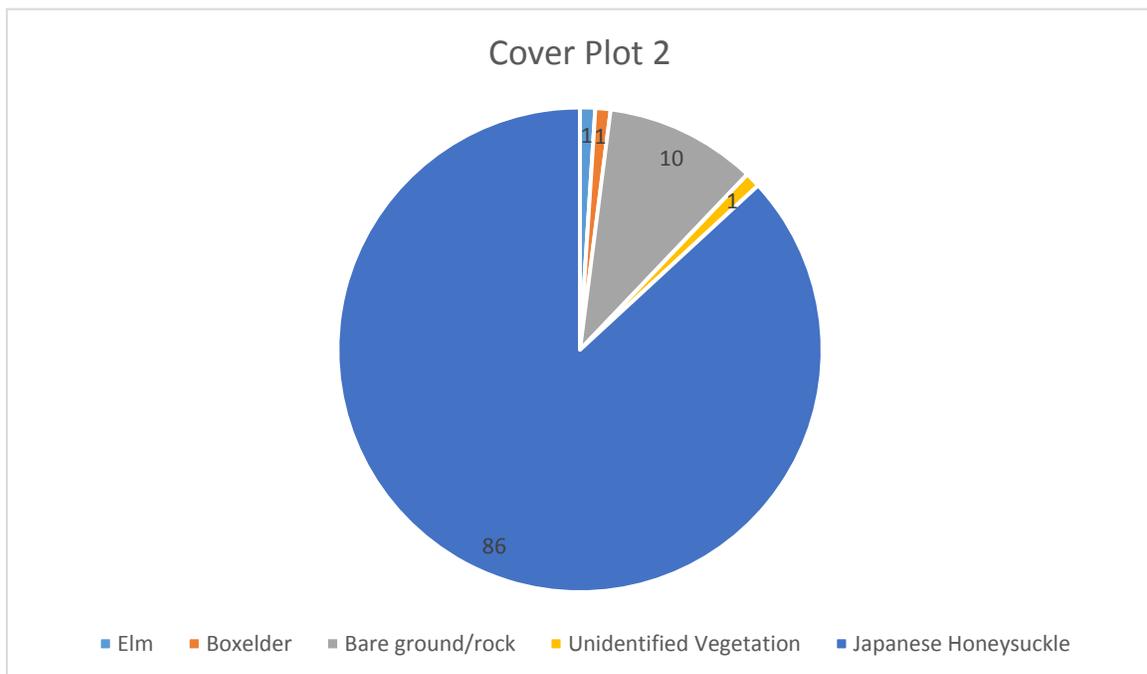
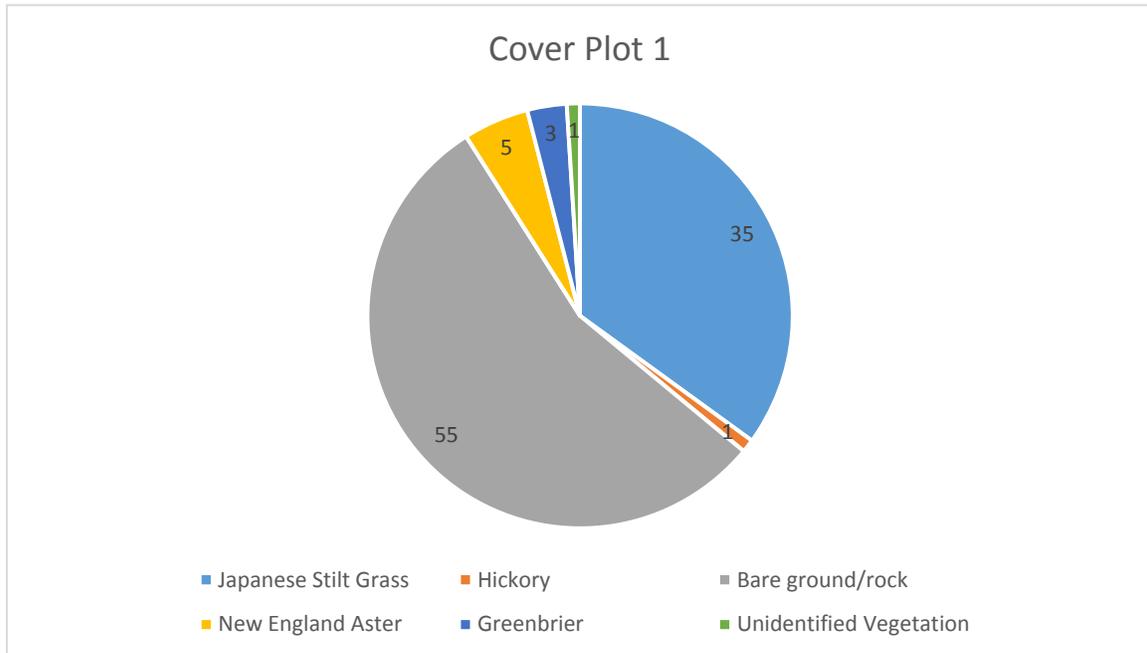
Bluestone Lake Leatherwood Landing Cover Plots

Plot one was taken within the historic rise of approximately 5 to 10 feet of elevation rise above normal summer pool elevation. The radius of the sampling plot was 10 feet. The plot indicated out of 100 percent cover that approximately 70 percent of the cover area consisted of invasive species. A plot outside of the normal rise of 5 to 10 feet in elevation was also conducted at approximately 15 to 20 feet of elevation. Cover plot 2 only showed 40 percent total cover of vegetation with 36 percent being invasive species.



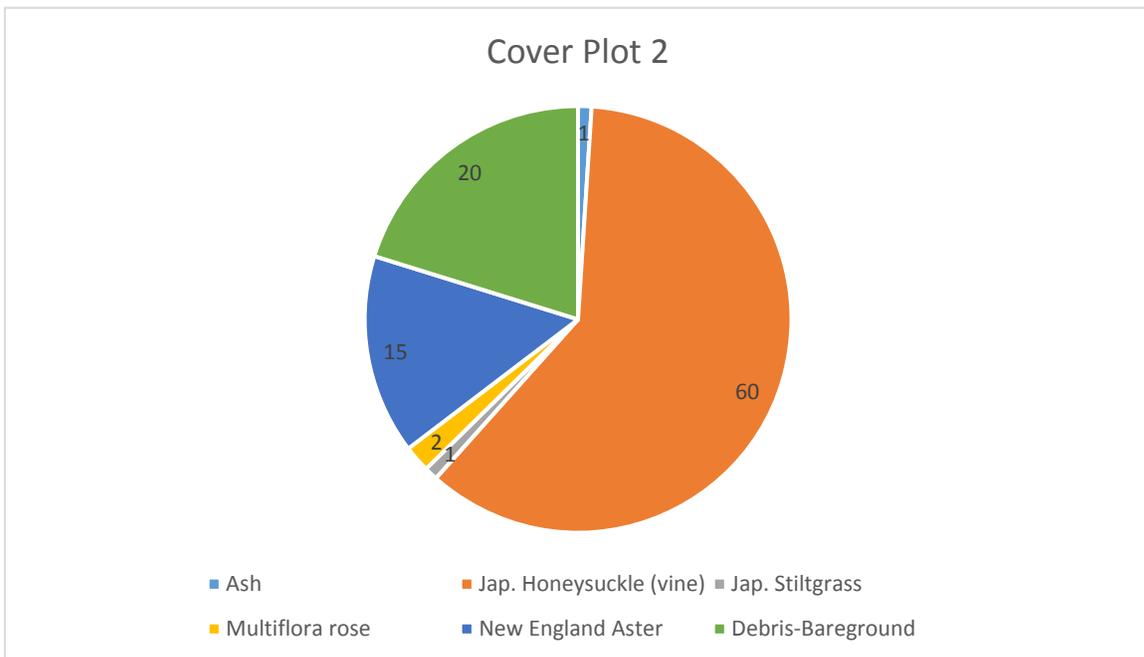
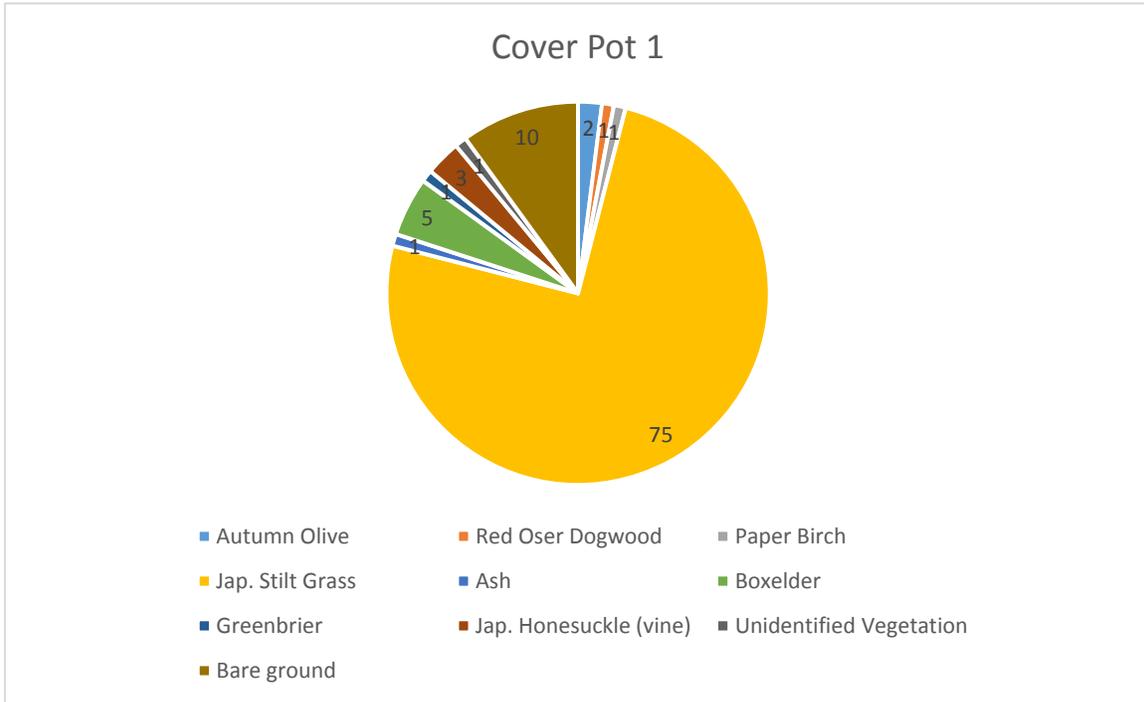
Bluestone Lake Pit Area Cover Plots

Plot one was taken within the historic rise of approximately 5 to 10 feet of elevation rise above normal summer pool elevation. The radius of the sampling plot was 10 feet. The plot indicated out of 100 percent cover that approximately 35 percent of the cover area consisted of invasive species. A plot outside of the normal rise of 5 to 10 feet in elevation was also conducted at approximately 15 to 20 feet of elevation. Cover plot 2 showed 86 percent total cover of invasive species.



Bluestone Lake State Park Launch Ramp

Plot one was taken within the historic rise of approximately 5 to 10 feet of elevation rise above normal summer pool elevation. The radius of the sampling plot was 10 feet. The plot indicated out of 100 percent cover that approximately 80 percent of the cover area consisted of invasive species. A plot outside of the normal rise of 5 to 10 feet in elevation was also conducted at approximately 15 to 20 feet of elevation. Cover plot 2 showed 63 percent total cover of invasive species.

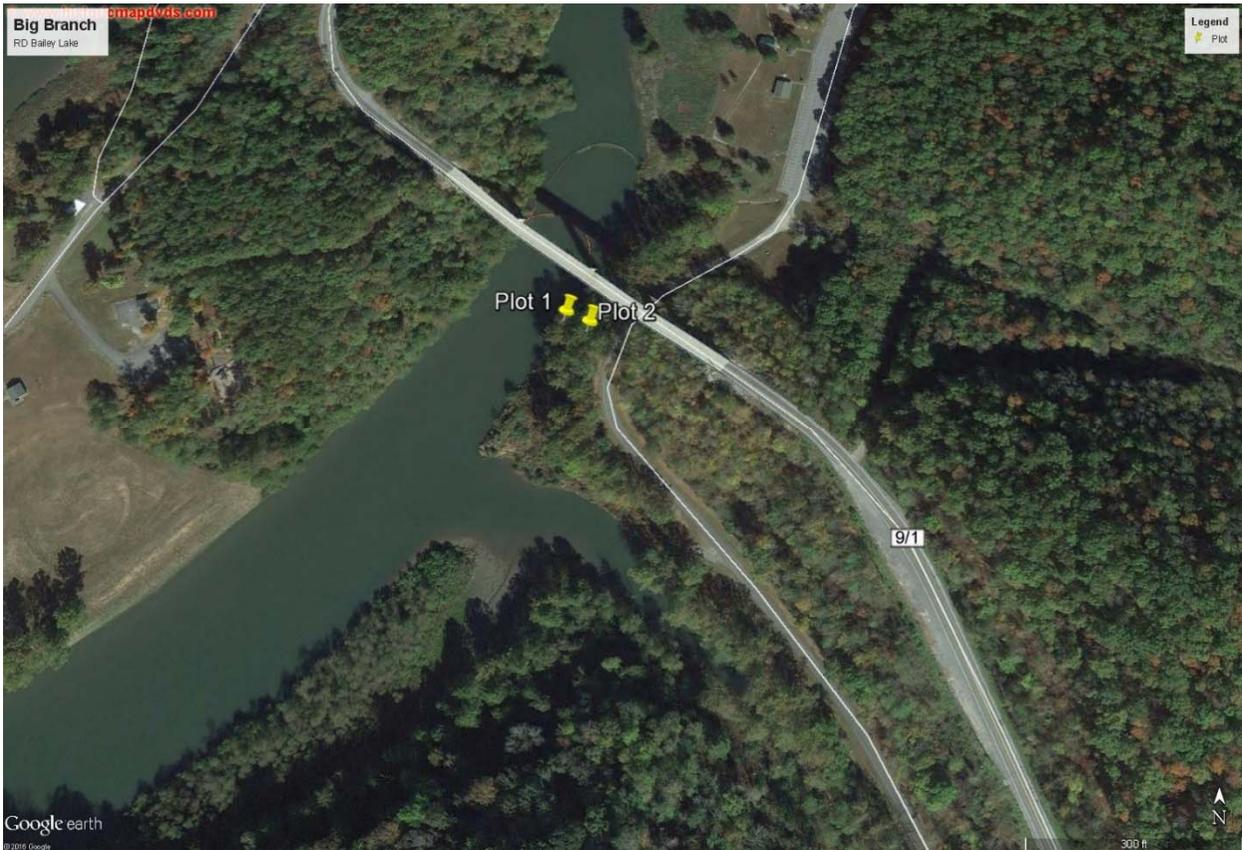




RD Dam Site Plot 1



RD Dam Site Plot 2



RD Big Branch Plot 1



RD Big Branch Plot 2

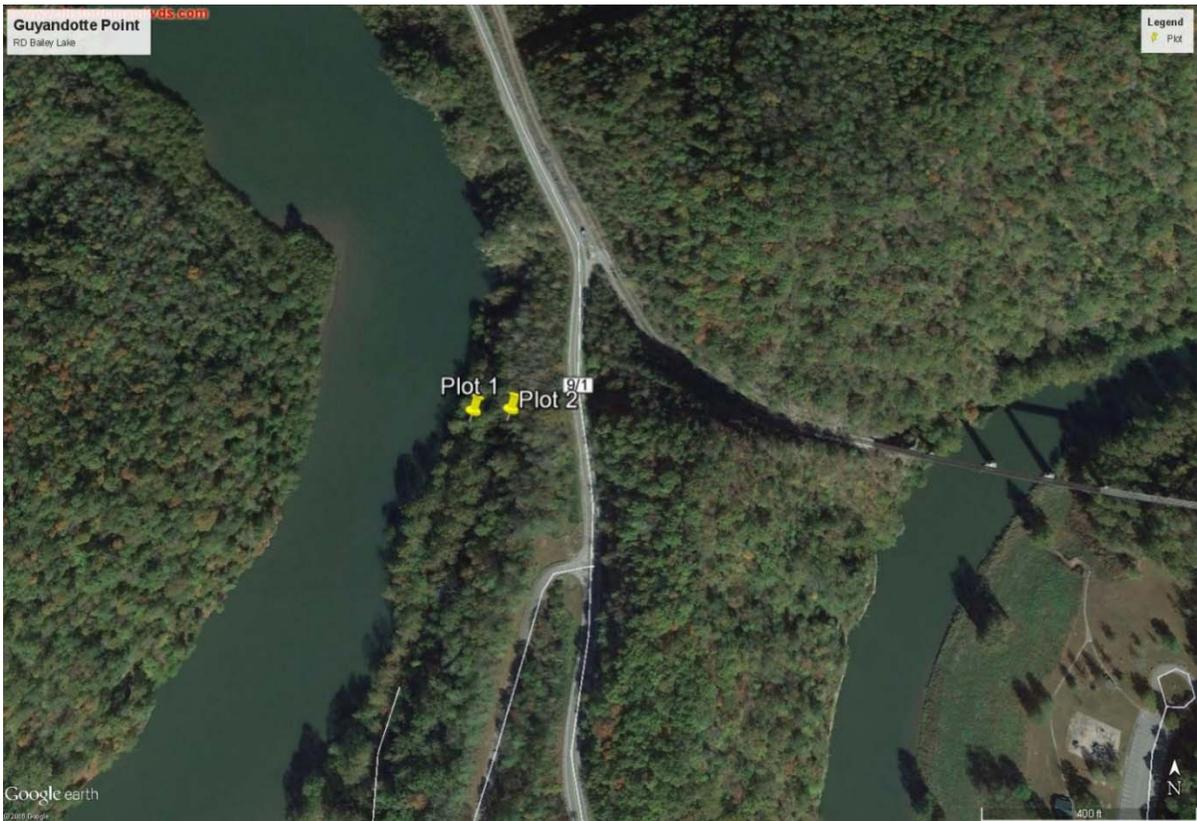




RD Big Branch Site 2 Plot 1



RD Big Branch Site 2 Plot 2



RD Guyandotte Point Plot 1



RD Guyandotte Point Plot 2

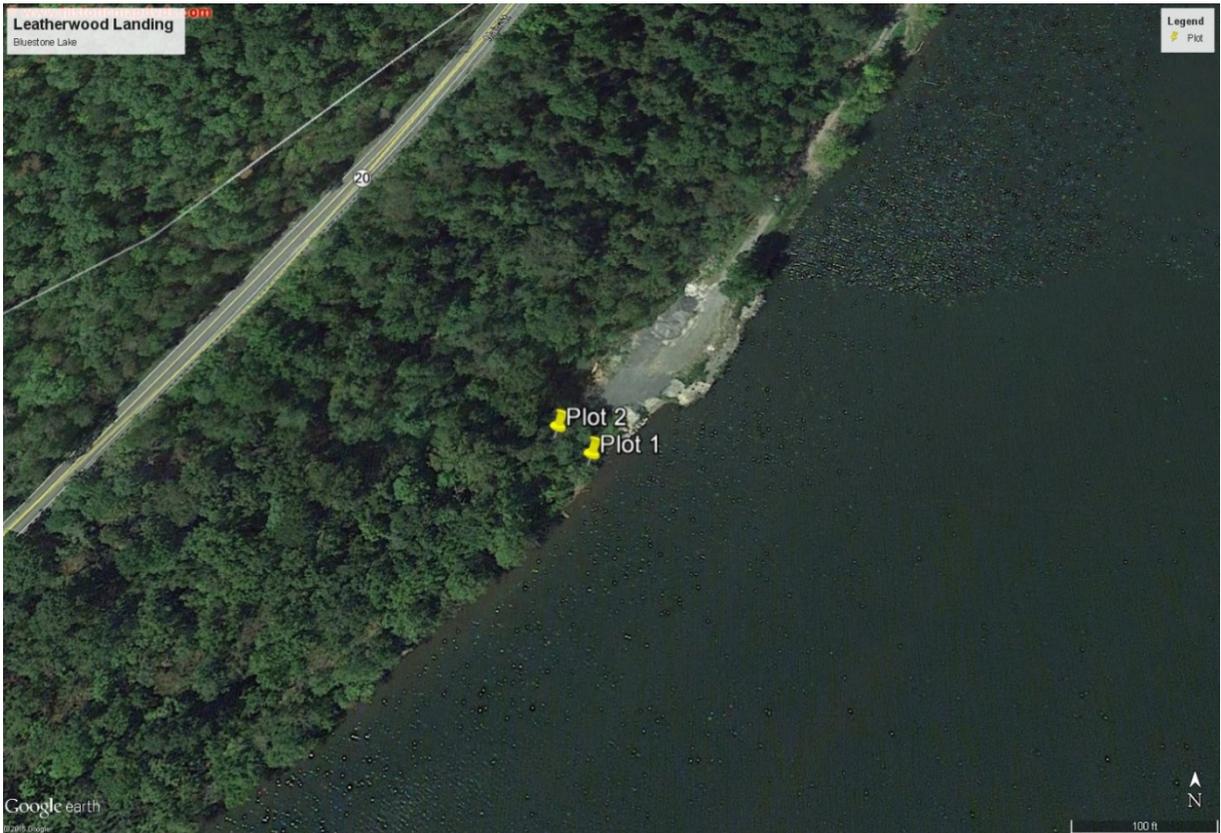




Dam Site Plot 1



Dam Site Plot 2



Bluestone Leatherwood Landing Plot 1



Bluestone Leatherwood Landing Plot 2

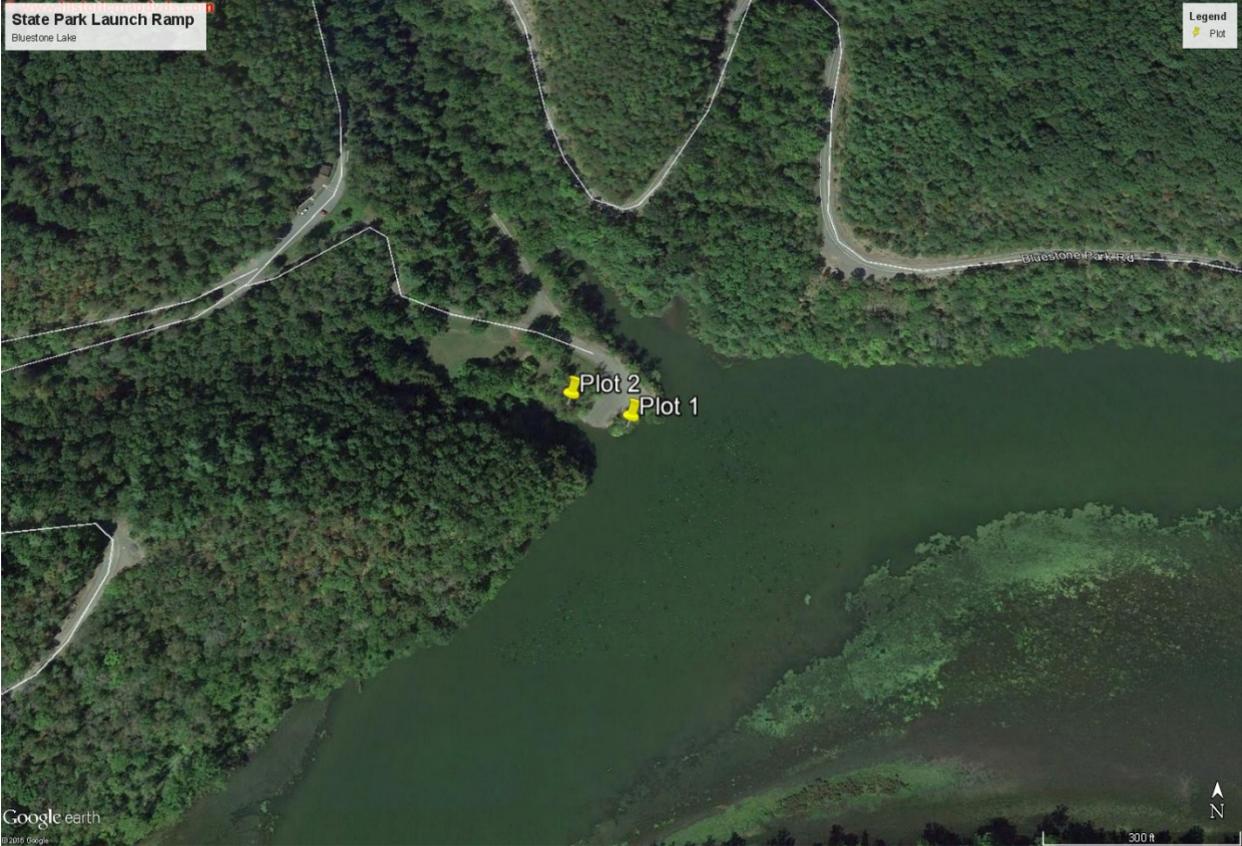




Bluestone Pit Area Plot 1



Bluestone Pit Area Plot 1



Bluestone Park Launch Ramp Plot 1



Bluestone Park Launch Ramp Plot 2



