

density at the Keenesburg Mine, no woody plant density sampling is proposed.

Species composition. Species composition data will be derived from the total and relative vegetation cover data. All species sampled will have relative cover data tabulated for comparison to the species composition standard.

Sample adequacy. For bond release purposes, a minimum of fifteen cover transects and fifteen production quadrats will be sampled in the reclaimed area. Sample adequacy calculations will be made for both vegetative cover and herbaceous production sampling in any reclaimed area using the formulas presented in the CDRMS Coal Rules.

Final Revegetation Success Standards

Final revegetation success will be judged for vegetative cover and herbaceous production through the use of the approved predictive equations. Species composition will be evaluated using the approved success standard.

Total vegetation cover. Reclaimed areas will be considered successfully reclaimed if the total vegetation cover on the reclaimed area(s) is not less than 90 percent of the total vegetation cover value from the equation: $y = -0.0127x^3 + 0.2115x^2 + 2.1772x$ (where x is the cumulative September - July precipitation at the mine) with 90 percent statistical confidence using a one-tailed Student's t or Confidence Interval test.

Herbaceous production. Reclaimed areas will be considered successfully reclaimed if the total herbaceous production on the reclaimed area(s) is not less than 90 percent of the total herbaceous production value from the equation: $y = 0.4666x^{2.1405}$ (where x is the cumulative September - July precipitation at the mine) with 90 percent statistical confidence using a one-tailed Student's t or Confidence Interval test.

Species composition. Reclaimed areas will be considered successfully reclaimed if the species composition on any reclaimed area is such that there are at least four perennial grass species. No one component of the above species should comprise greater than 40% relative cover nor less than 3% relative cover. Any perennial grass species (native or introduced) may be used in the calculation of species composition except for those species defined as noxious by the Colorado Department of Agriculture.