Plantation Management Research Cooperative
The University of Georgia

July 2, 2012

TO: All PINEMAP field crews, faculty and staff
CC: PMRC Advisory Committee

Madison,

I understand that participants in the PINEMAP project wish to use PMRC installations in support of that study. West Gulf Culture x Density, SAGS CD, Coastal Plain CD, SAGS Site Preparation and the Mid-Rotation Thinning (MRT) studies have been identified as possible sampling targets. All of these installations are active studies and important to the PMRC research program.

The PINEMAP project is welcome to use these installations as long as the integrity of the measurement plots is not compromised by any destructive sampling. Any violation of this rule will result in the banning of PINEMAP participants from further use of the plots and the public presentation of the Sloppy & Disrespectful Scientist Letter of Reprimand to the offending persons and their institution. In all seriousness, the investment in these installations by the PMRC is considerable and misdirected destructive sampling will not be tolerated.

To aid in the successful collection of PINEMAP data from the plots I have attached example diagrams of a typical plots and offer the following information and suggestions:

- All PMRC treatment plots consist of a rectangular measurement plot centered in a surrounding buffer area (gross plot) which has received the same treatment. Plot size varies by study and by treatment. All gross plot and measurement plot corners were monumented with either EMT pipe (more recently) or #3 rebar (earlier studies.) All of the above studies except for the SAGS Site Prep study should have PVC pipe over all corners to aid in location but these occasionally go missing when we have 'visitors'. Common gross plot corners on the SAGS and CP CD studies may share a single monument- refer to the layout maps.
- **Wood core samples MUST only be taken from gross plot border trees**. These are typically the two rows outside of either side of the measurement plot. Buffer trees on the ends of the plots/rows are more difficult to positively identify, especially on non-weed control plots, so I suggest using the side rows only. I understand that all core holes will plugged with tightly driven wooden dowels.
- All of the above studies have treatment plots consisting of partial or complete competition control in addition to plots which do not receive any weed control. Nearly all plots of all studies have a series of Competing Vegetation subplot points systematically established in the measurement plots. These are monumented with EMT or rebar and do not have PVC covers (Guys, be careful walking through the plots!) There are 9 CV points on most all study plots except the MRT study which has 20 points per plot. The 9 point

plots are a 3 x 3 rectangular grid layout. The MRT layout is systematic but not rectangular and the layout varies depending on the thinning type, row spacing and plot length. I can provide CV point layout maps for any MRT plot of interest.

- **Clipped plot samples may be taken within the measurement plot; HOWEVER; no samples should be taken within 10 feet of any subplot sample point**. Care must be taken to inspect within 10' in all directions from a clipped plot on all study plots. Of course clipped plots may be taken in the gross border also with no worries about CV sample points. **No Hardwood stem above 1.9" DBH should be cut anywhere within the measurement plot**.
- Any given installation of the MRT study may be in any phase of the installation process. Weed control plots may not have been treated, thinning may not have been executed, and fertilization may have not been completed. I can provide treatment dates for any given treatment for any MRT installation if needed.

Please see the attached examples and contact me if you have any questions.

Best Regards,
John

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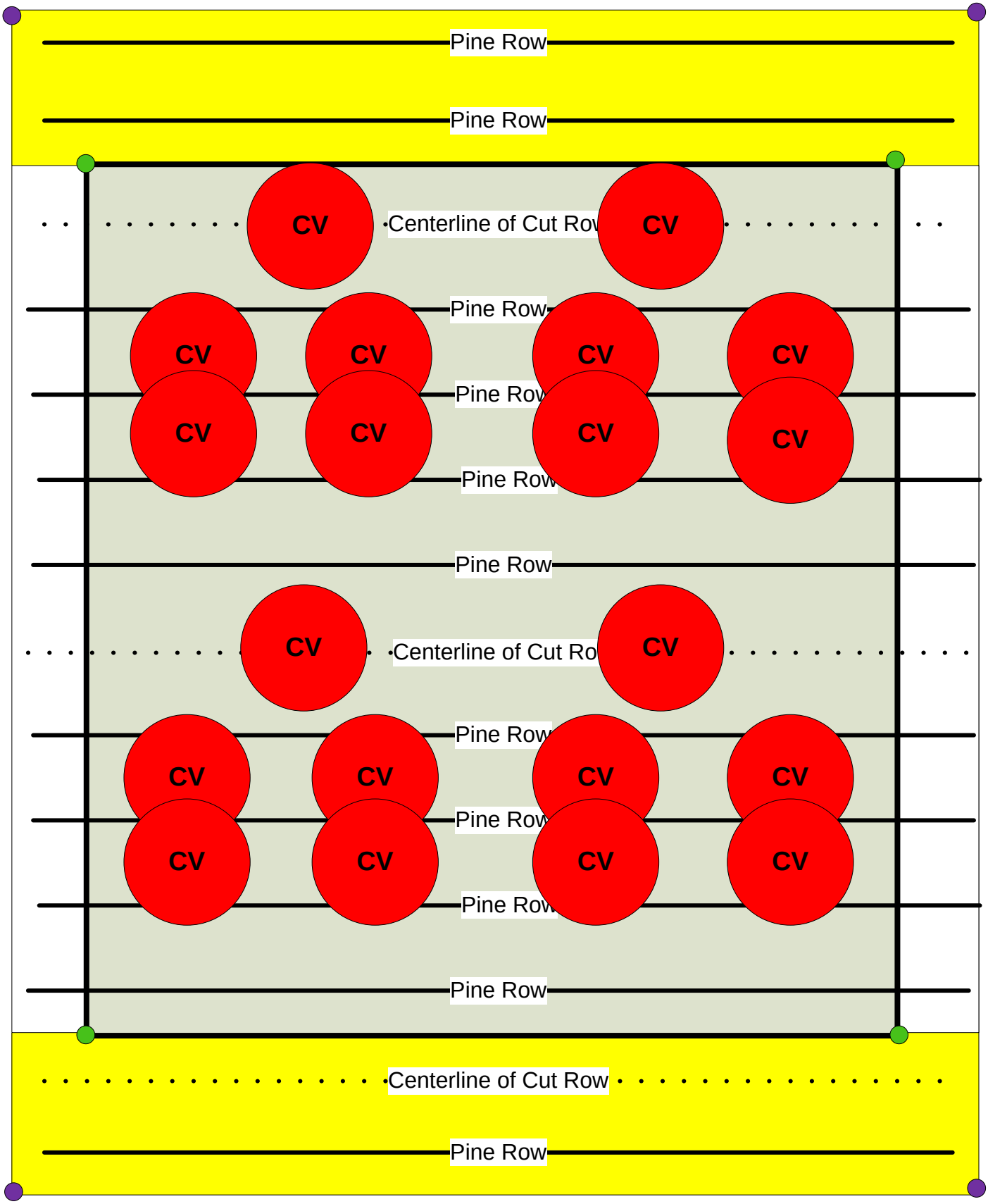
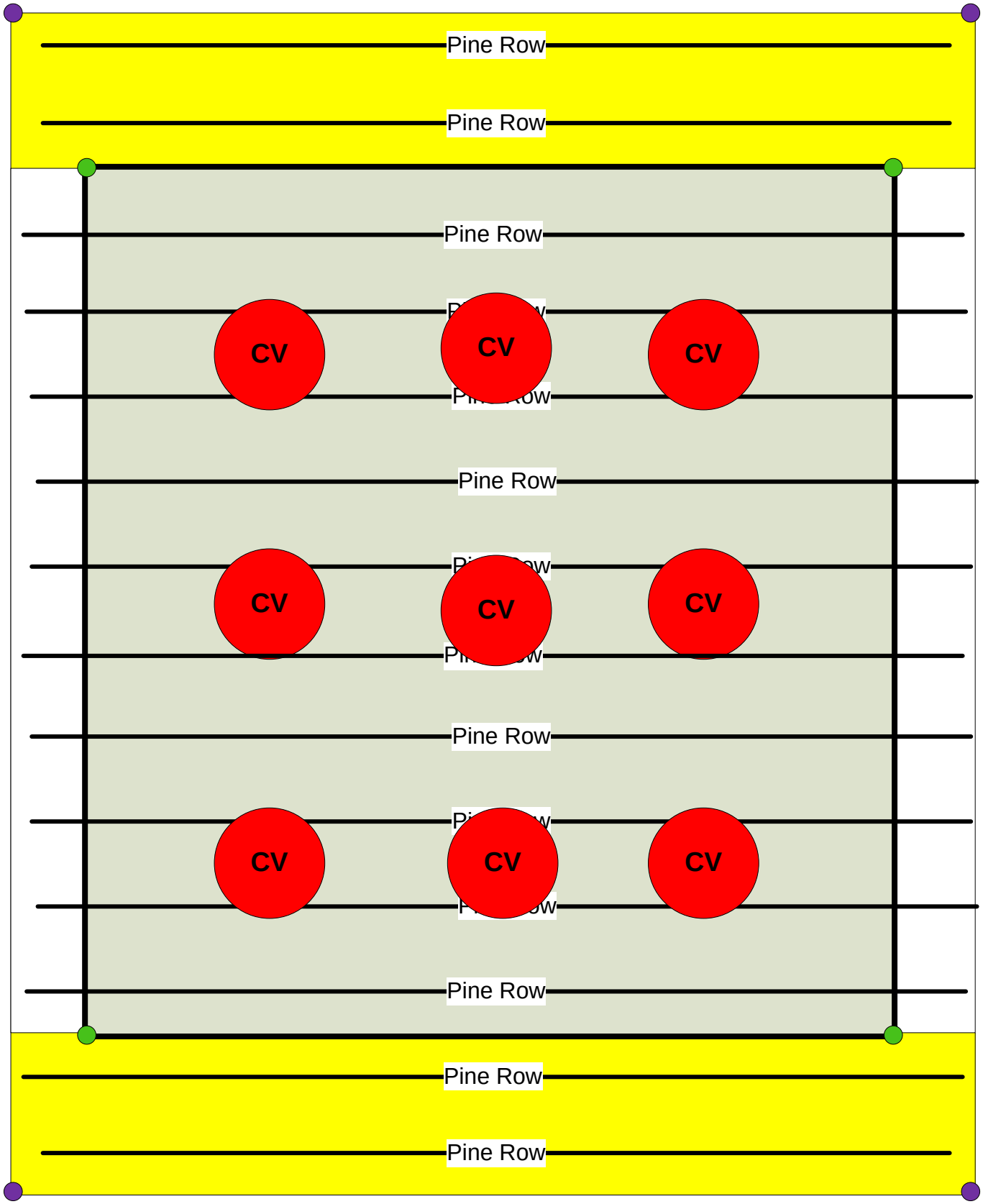


Clipped Plot Sampling: This is an example of a CV subplot layout on the Mid-Rotation Thinning study. Number of measurement rows vary by thinning type and row spacing, but all plots have a systematic layout of 20 subplot points monumented with either EMT or rebar appx 18: tall. Do NOT clip plots within 10 feet of any point. The example above is to scale showing a 10 foot radius around each CV subplot point. THIS IS NOT THE ONLY LAYOUT. I can provide layouts for any installation,

Core Sampling: Recommended areas for core sampling are the buffer areas to either side of the measurement plot shown in yellow above. There are at least two buffer rows to each side of all measurement plots. End-row buffer areas are more difficult to determine since some measurement trees may be on the boundary line and on non-control measurement plots corners may be hard to see.



Clipped Plot Sampling: This is an example of a typical CV subplot layout on all of the Culture Density studies and the Site Preparation studies. Number of measurement rows vary by density, but all plots have a 3 x 3 grid of subplot points monumented with either EMT or rebar appx 18: tall. Do NOT clip plots within 10 feet of any point.

Core Sampling: Recommended areas for core sampling are the buffer areas to either side of the measurement plot shown in yellow above. There are at least two buffer rows to each side of all measurement plots. End-row buffer areas are more difficult to determine since some measurement trees may be on the boundary line and on non-control measurement plots corners may be hard to see.