Supplementary Table 2 Control sampling (entire leaf) harvesting dates and labeling for metabolomics of leaves in North Carolina

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| **Harvest time**  | **Date** | **Sample labeling** | **Leaf number and grouping** |
| First harvest (leaves 1-2) | Aug. 3rd | CMP1R1-I (21-25 plants in plot 1)CMP1R2-I (81-85 plants in plot 2)CMP1R3-I (141-145 plants in plot 3) | I: 1-2 leaves(3 biological samples each year) |
| Second harvest (leaves 3-8) | Aug. 24th | CMP2R1-II, III (21-25 plants in plot 1)CMP2R2-II, III (81-85 plants in plot 2)CMP2R3-II, III (141-145 plants in plot 3) | II: 3-5 leavesIII: 6-8 leaves(6 biological samples each year) |
| Third harvest (leaves 9-14) | Sept. 14th | CMP3R1-IV, V (21-25 plants in plot 1)CMP3R2-IV, V (81-85 plants in plot 2)CMP3R3-IV, V (141-145 plants in plot 3) | IV: 9-11 leavesV: 12-14 leaves(6 biological samples, each year) |
| Forth harvest (leaves 15-20) | Oct. 4th | CMP4R1-VI, VII (21-25 plants in plot 1)CMP4R2-VI, VII (81-85 plants in plot 2)CMP4R3-VI, VII (141-145 plants in plot 3) | VI: 15-17 leavesVII: 18-20 leaves(6 biological samples each year) |

CMP1R1-I: control metabolomics pick #1 replicate-1-I group.