Date Updated: 11/17/2017

Creator of Note: John Truong

Subject: Adjustments made to FHM tree data from

In 2017, the FEMC FHM field crew went out and surveyed FEMC’s 48 Forest Health Monitoring plots. In doing, so there were corrections made to some of the tree species identifications, tree azimuths, and tree distances. There adjustments were verified by confirming changes were intentionally made on the raw datasheets. There are 38 records of species changes, 49 records of azimuth changes, and 27 records of distance changes from the 2017 data compared to the historical data (1994-2016).

In addition to these changes. Plot LBA1400A subplot 3 was not included in the 2017 data. The data recorded stated many trees did not exist which leads to the belief that the plot was possibly not found and instead another location was assumed to be subplot 3s plot center. This could explain why many of the trees recorded in 2017 had drastically different azimuths, distances, and species identifications. This plot will be reevaluated in the 2018 field season to verify whether or not the changes in 2017 are valid.

**Trees where species ID were changed in 2017. The ‘Confirmed Species Change’ column contains the values that were accepted and adjusted in the FHM database.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PlotID** | **SubplotID** | **TreeID** | **2017 Species** | **Original Species** | **Confirmed Species Change** |
| HHSB13H02 | 2 | 9 | 402 | 407 | 402 |
| HHSB13H02 | 4 | 4 | 837 | 833 | 837 |
| HHSC01K07 | 2 | 9 | 261 | 544 | 261 |
| HHSC12F02 | 3 | 8 | 998 | 316 | 998 |
| HHSC12F02 | 3 | 9 | 541 | 402 | 541 |
| HHSF01A11 | 1 | 15 | 371 | 378 | 371 |
| HHSF01A11 | 3 | 17 | 371 | 378 | 371 |
| HHSG01G10 | 2 | 6 | 371 | 375 | 371 |
| HHSG01G10 | 3 | 7 | 379 | 375 | 379 |
| LBA1400B | 2 | 7 | 319 | 316 | 316 |
| LBA2300B | 1 | 5 | 378 | 375 | 378 |
| LEMP12 | 3 | 3 | 531 | 379 | 531 |
| LEMP12 | 3 | 5 | 762 | 379 | 762 |
| LEMP12 | 3 | 7 | 762 | 379 | 762 |
| LEMP12 | 3 | 9 | 375 | 379 | 375 |
| LEMP12 | 3 | 12 | 761 | 379 | 761 |
| LEMP13 | 1 | 2 | 837 | 833 | 833 |
| LEMP17 | 2 | 13 | 375 | 372 | 375 |
| LEMP18 | 3 | 3 | 531 | 541 | 531 |
| LEMP18 | 3 | 6 | 531 | 541 | 531 |
| LEMP18 | 3 | 7 | 531 | 541 | 531 |
| MMBR3000 | 1 | 8 | 378 | 375 | 378 |
| MMBR3000 | 2 | 8 |  | 12 | 97 |
| MMBR3000 | 3 | 7 | 378 | 375 | 378 |
| MMBR3000 | 3 | 9 | 378 | 375 | 378 |
| MMBR3000 | 3 | 33 | 378 | 375 | 378 |
| MMBR3800B | 3 | 22 | 97 | 95 | 97 |
| MMRB2200B | 2 | 3 | 371 | 378 | 371 |
| MMRB2200B | 2 | 5 | 378 | 371 | 378 |
| VMC1063 | 3 | 3 | 371 | 375 | 371 |
| VMC1063 | 3 | 13 | 541 | 402 | 541 |
| VMC1063 | 4 | 12 | 318 | 97 | 97 |
| VMC1063 | 4 | 13 | 97 | 318 | 318 |
| VMC919 | 2 | 6 | 371 | 318 | 371 |
| VMC919 | 4 | 1 | 531 | 371 | 531 |
| VMC919 | 4 | 2 | 371 | 531 | 371 |
| VMC919 | 4 | 3 | 531 | 318 | 531 |
| VMC919 | 4 | 4 | 371 | 318 | 371 |

**Trees where azimuths were changed in 2017. The ‘Confirmed Azimuth Change’ column contains the values that were accepted and adjusted in the FHM database.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PlotID** | **SubplotID** | **TreeID** | **2017 Azimuth** | **Original Azimuth** | **AzDiff** | **Confirmed Azimuth Change** |
| HHSI09K10 | 2 | 6 | 272 | 283 | -11 | 283 |
| HHSI09K10 | 2 | 7 | 271 | 283 | -12 | 283 |
| HHSI09K10 | 2 | 8 | 264 | 283 | -19 | 283 |
| HHSI09K10 | 2 | 9 | 260 | 283 | -23 | 283 |
| HHSI09K10 | 2 | 10 | 261 | 283 | -22 | 283 |
| HHSI09K10 | 2 | 11 | 268 | 283 | -15 | 283 |
| LEMP18 | 1 | 1 | 96 | 70 | 26 | 96 |
| LEMP18 | 1 | 2 | 178 | 138 | 40 | 178 |
| LEMP18 | 1 | 3 | 185 | 178 | 7 | 185 |
| LEMP18 | 1 | 4 | 192 | 999 | -807 | 192 |
| LEMP18 | 1 | 5 | 193 | 999 | -806 | 193 |
| LEMP18 | 1 | 6 | 270 | 999 | -729 | 270 |
| LEMP18 | 1 | 7 | 0 | 999 | -999 | 0 |
| LEMP18 | 3 | 8 | 319 | 999 | -680 | 319 |
| MMBR1400 | 1 | 2 | 40 | 29 | 11 | 40 |
| MMBR1400 | 1 | 3 | 42 | 40 | 2 | 42 |
| MMBR1400 | 1 | 4 | 35 | 25 | 10 | 35 |
| MMBR1400 | 1 | 5 | 56 | 40 | 16 | 56 |
| MMBR1400 | 1 | 6 | 86 | 41 | 45 | 86 |
| MMBR1400 | 1 | 7 | 97 | 71 | 26 | 98 |
| MMBR1400 | 1 | 8 | 164 | 80 | 84 | 164 |
| MMBR1400 | 1 | 9 | 172 | 108 | 64 | 172 |
| MMBR1400 | 1 | 10 | 180 | 145 | 35 | 180 |
| MMBR1400 | 1 | 11 | 204 | 145 | 59 | 204 |
| MMBR1400 | 1 | 12 | 270 | 264 | 6 | 270 |
| MMBR1400 | 1 | 13 | 295 | 288 | 7 | 295 |
| MMBR1400 | 1 | 14 | 325 | 313 | 12 | 325 |
| MMBR3000 | 2 | 7 | 260 | 261 | -1 | 260 |
| MMBR3000 | 2 | 8 | 64 | 288 | -224 | 64 |
| MMBR3000 | 2 | 35 | 249 | 240 | 9 | 249 |
| MMBR3000 | 4 | 22 | 232 | 323 | -91 | 323 |
| MMBR3800B | 4 | 32 | 257 | 357 | -100 | 357 |
| MMRB2200B | 1 | 1 | 9 | 24 | -15 | 9 |
| MMRB2200B | 1 | 2 | 70 | 75 | -5 | 70 |
| MMRB2200B | 1 | 3 | 80 | 92 | -12 | 80 |
| MMRB2200B | 1 | 4 | 104 | 109 | -5 | 104 |
| MMRB2200B | 1 | 5 | 106 | 111 | -5 | 106 |
| MMRB2200B | 1 | 6 | 106 | 111 | -5 | 106 |
| MMRB2200B | 1 | 7 | 144 | 146 | -2 | 144 |
| MMRB2200B | 1 | 8 | 169 | 164 | 5 | 169 |
| MMRB2200B | 1 | 9 | 170 | 176 | -6 | 170 |
| MMRB2200B | 1 | 10 | 172 | 176 | -4 | 172 |
| MMRB2200B | 1 | 13 | 315 | 322 | -7 | 315 |
| MMRB2200B | 1 | 103 | 258 | 268 | -10 | 258 |
| VMC495 | 4 | 1 | 360 | 4 | 356 | 360 |
| VMC919 | 4 | 1 | 80 | 30 | 50 | 80 |
| VMC919 | 4 | 2 | 161 | 80 | 81 | 161 |
| VMC919 | 4 | 3 | 229 | 248 | -19 | 229 |
| VMC919 | 4 | 4 | 348 | 999 | -651 | 348 |

**Trees where distances were changed in 2017.** **The ‘Confirmed Distance Change’ column contains the values that were accepted and adjusted in the FHM database.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PlotID** | **SubplotID** | **TreeID** | **2017 Distance** | **Original Distance** | **DistanceDiff** | **Confirmed Distance Change** |
| HHSI09K10 | 2 | 6 | 4.33 | 4.22 | -0.22 | 4.22 |
| HHSI09K10 | 2 | 7 | 3.00 | 4.22 | -1.22 | 4.22 |
| HHSI09K10 | 2 | 8 | 3.00 | 4.22 | -1.22 | 4.22 |
| HHSI09K10 | 2 | 9 | 4.00 | 4.22 | -0.22 | 4.22 |
| HHSI09K10 | 2 | 10 | 5.00 | 4.22 | 0.78 | 4.22 |
| HHSI09K10 | 2 | 11 | 4.00 | 4.22 | -0.22 | 4.22 |
| LEMP12 | 1 | 6 | 3 | 3.29 | -0.29 | 3.29 |
| LEMP18 | 1 | 1 | 6 | 6.79 | -0.79 | 6.41 |
| LEMP18 | 1 | 5 | 5 | 5.95 | -0.95 | 5.52 |
| LEMP18 | 1 | 6 | 5 | 5.38 | -0.38 | 5.2 |
| MMBR1400 | 1 | 2 | 7 | 6.96 | 0.04 | 7.15 |
| MMBR1400 | 1 | 6 | 4 | 6.07 | -2.07 | 4.5 |
| MMBR1400 | 1 | 7 | 6 | 5.40 | 0.60 | 6.53 |
| MMBR1400 | 1 | 8 | 1 | 5.57 | -4.57 | 1.41 |
| MMBR1400 | 1 | 9 | 5 | 4.11 | 0.89 | 5.68 |
| MMBR1400 | 1 | 10 | 4 | 5.64 | -1.64 | 4.8 |
| MMBR1400 | 1 | 11 | 5 | 6.86 | -1.86 | 5.71 |
| MMBR1400 | 1 | 12 | 4 | 0.46 | 3.54 | 4.02 |
| MMBR1400 | 1 | 13 | 6 | 6.64 | -0.64 | 6.9 |
| MMBR1400 | 1 | 14 | 4 | 5.80 | -1.80 | 4.63 |
| MMBR3000 | 2 | 8 |  | 4.40 |  | 5.47 |
| VMC1063 | 4 | 12 | 1 | 3.81 | -2.81 | 3.81 |
| VMC1063 | 4 | 13 | 3 | 1.62 | 1.38 | 1.62 |
| VMC919 | 4 | 1 | 3 | 5.50 | -2.50 | 3.65 |
| VMC919 | 4 | 2 | 5 | 7.30 | -2.30 | 5.92 |
| VMC919 | 4 | 3 | 2 | 6.35 | -4.35 | 2.9 |
| VMC919 | 4 | 4 | 5 | 6.90 | -1.90 | 5.3 |