

1 Supplemental Table 1. Mean shoot, root, and total biomass, and annual NPP after four years of
 2 growth under resource amendments. Treatments consisted of control (C), irrigation (I),
 3 fertilization (F), and irrigation + fertilization (IF). Treatment means within species sharing a
 4 common letter, and means by species across treatments sharing a common letter are not
 5 significantly different (Fisher's LSD, $\alpha = 0.05$).

| Species | Treatment | Shoot Biomass (Mg ha ⁻¹) | Root Biomass (Mg ha ⁻¹) | Total Biomass (Mg ha ⁻¹) | NPP (Mg ha ⁻¹ y ⁻¹) |
|-----------------------|-----------|---|--|---|---|
| Cottonwood (ST66) | C | 3.6 ^c | 3.7 ^c | 7.4 ^c | 7.1 ^c |
| | I | 5.9 ^{bc} | 5.2 ^b | 11.1 ^{bc} | 10.0 ^{bc} |
| | F | 9.2 ^b | 6.2 ^b | 15.4 ^b | 13.0 ^b |
| | IF | 17.3 ^a | 8.5 ^a | 25.8 ^a | 20.6 ^a |
| Cottonwood (S7C15) | C | 4.1 ^c | 3.5 ^b | 7.7 ^c | 8.1 ^c |
| | I | 7.5 ^c | 6.1 ^a | 13.6 ^b | 11.9 ^b |
| | F | 12.4 ^b | 6.7 ^a | 19.1 ^a | 16.6 ^a |
| | IF | 16.1 ^a | 7.1 ^a | 23.2 ^a | 15.7 ^a |
| Sycamore | C | 7.4 ^d | 5.7 ^c | 13.1 ^d | 13.1 ^c |
| | I | 15.2 ^c | 8.3 ^b | 23.5 ^c | 16.9 ^b |
| | F | 23.0 ^b | 8.7 ^b | 31.6 ^b | 25.7 ^a |
| | IF | 29.3 ^a | 10.0 ^a | 39.3 ^a | 24.7 ^a |
| Sweetgum | C | 9.5 ^c | 8.8 ^b | 18.4 ^c | 16.5 ^b |
| | I | 10.5 ^c | 9.4 ^b | 19.8 ^c | 15.9 ^b |
| | F | 15.7 ^b | 12.1 ^a | 27.8 ^b | 23.7 ^a |
| | IF | 20.7 ^a | 12.9 ^a | 33.6 ^a | 25.5 ^a |

| | | | | | |
|---------------|----|-------------------|-------------------|-------------------|-------------------|
| Loblolly Pine | C | 17.6 ^c | 7.1 ^b | 24.6 ^c | 16.4 ^c |
| | I | 15.7 ^c | 5.0 ^c | 20.7 ^c | 15.4 ^c |
| | F | 24.4 ^b | 8.3 ^b | 32.7 ^b | 22.7 ^b |
| | IF | 28.8 ^a | 11.1 ^a | 39.9 ^a | 26.5 ^a |
| <hr/> | | | | | |
| Species Means | | | | | |
| ST66 | — | 9.0 ^d | 5.9 ^c | 14.9 ^c | 12.7 ^b |
| S7C15 | — | 10.0 ^d | 5.8 ^c | 15.9 ^c | 13.0 ^b |
| Sycamore | — | 18.7 ^b | 8.2 ^b | 26.9 ^b | 20.1 ^a |
| Sweetgum | — | 14.1 ^c | 10.8 ^a | 24.9 ^b | 20.4 ^a |
| Loblolly Pine | — | 21.6 ^a | 7.9 ^b | 29.5 ^a | 20.2 ^a |

6 ^a Shoot = branch + bark + wood + litter; leaf was included in loblolly pine because it was part of
7 the dormant season biomass.

8 ^b Root = stump + coarse root + fine root

9 ^c Total = shoot + root

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1 Supplemental Table 2. Significance levels for shoot, root, and total biomass and annual NPP
 2 across four years of resource amendments. *P*-values lower than $\alpha = 0.05$ are indicated with bold
 3 typeface.

| Effect | Biomass (Mg ha ⁻¹) | | | NPP (Mg ha ⁻¹ y ⁻¹) |
|-------------------|--------------------------------|-------------------|--------------------|--|
| | Shoot ^a | Root ^b | Total ^c | |
| Year (Y) | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Species (S) | < 0.0001 | < 0.0001 | < 0.0001 | 0.0066 |
| Irrigation (I) | 0.0002 | < 0.0001 | < 0.0001 | 0.0268 |
| Fertilization (F) | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Y×S | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Y×I | < 0.0001 | 0.0001 | < 0.0001 | < 0.0001 |
| Y×F | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| S×I | 0.3083 | 0.0368 | 0.1755 | 0.6942 |
| S×F | 0.2184 | 0.2016 | 0.4354 | 0.3866 |
| I×F | 0.1280 | 0.3444 | 0.1410 | 0.0404 |
| Y×S×I | < 0.0001 | 0.3101 | 0.0009 | 0.0020 |
| Y×S×F | 0.0085 | 0.1863 | 0.2742 | < 0.0001 |
| Y×I×F | 0.0002 | 0.0379 | < 0.0001 | 0.0002 |
| S×I×F | 0.8585 | 0.0023 | 0.4984 | 0.9766 |
| Y×S×I×F | < 0.0001 | 0.0014 | 0.0747 | 0.4285 |

5 ^a Shoot = branch + bark + wood + litter; leaf was included in loblolly pine because it was part of
 6 the dormant season biomass.

7 ^b Root = stump + coarse root + fine root

8 ^c Total = shoot + root

- 1 Supplemental Table 3. Significance levels for tissue [N] and N_C in biomass components across four years of resource amendments. P -
- 2 values lower than $\alpha = 0.05$ are indicated with bold typeface.

| Effect | [N] (mg g ⁻¹) | | | N_C (kg ha ⁻¹) | | |
|-------------------|---------------------------|-------------------|--------------------|------------------------------|-------------------|--------------------|
| | Shoot ^a | Root ^b | Total ^c | Shoot ^a | Root ^b | Total ^c |
| Year (Y) | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Species (S) | < 0.0001 | < 0.0001 | < 0.0001 | 0.0066 | < 0.0001 | 0.1459 |
| Irrigation (I) | < 0.0001 | 0.3698 | < 0.0001 | 0.0268 | < 0.0001 | 0.0011 |
| Fertilization (F) | 0.2931 | 0.0257 | 0.3887 | < 0.0001 | < 0.0001 | < 0.0001 |
| Y×S | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Y×I | < 0.0001 | 0.0223 | 0.0034 | < 0.0001 | 0.0104 | < 0.0001 |
| Y×F | 0.0003 | < 0.0001 | 0.0009 | < 0.0001 | < 0.0001 | < 0.0001 |
| S×I | 0.0005 | 0.5577 | 0.1443 | 0.6942 | 0.0738 | 0.2962 |
| S×F | < 0.0001 | < 0.0001 | < 0.0001 | 0.3866 | 0.0001 | 0.0706 |
| I×F | 0.0245 | 0.2695 | 0.5831 | 0.0404 | 0.9025 | 0.4611 |
| Y×S×I | < 0.0001 | 0.0014 | 0.0002 | 0.0020 | 0.6136 | 0.0813 |
| Y×S×F | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.0012 | 0.0001 |

| | | | | | | |
|---------|-----------------|-----------------|-----------------|---------------|---------------|---------------|
| Y×I×F | < 0.0001 | < 0.0001 | 0.0009 | 0.0002 | 0.1226 | 0.0001 |
| S×I×F | 0.0933 | < 0.0001 | 0.0317 | 0.9766 | 0.1277 | 0.7337 |
| Y×S×I×F | < 0.0001 | < 0.0001 | < 0.0001 | 0.4285 | 0.0068 | 0.1225 |

4 ^a Shoot = branch + bark + wood + litter; leaf was included in loblolly pine because it was part of the dormant season biomass.

5 ^b Root = stump + coarse root + fine root

6 ^c Total = shoot + root

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1 Supplemental Table 4. Significance levels for [N] of tissue components across four years of resource amendments. *P*-values lower
 2 than $\alpha = 0.05$ are indicated with bold typeface.

| Effect | Litter | Leaf | Bark | Wood | Branch | Stump | Coarse Root | Fine Root | Fine Root Turnover |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|
| Year (Y) | 0.0320 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Species (S) | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Irrigation (I) | < 0.0001 | 0.5131 | < 0.0001 | 0.3377 | 0.0223 | < 0.0001 | 0.7710 | < 0.0001 | < 0.0001 |
| Fertilization (F) | 0.1244 | < 0.0001 | 0.3102 | < 0.0001 | 0.0164 | 0.1933 | 0.0017 | 0.0120 | 0.0120 |
| Y×S | 0.0002 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.0023 | 0.0023 |
| Y×I | 0.9154 | 0.5974 | < 0.0001 | 0.0009 | < 0.0001 | < 0.0001 | < 0.0001 | 0.3032 | 0.3032 |
| Y×F | 0.2699 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.9998 | 0.9998 |
| S×I | 0.5478 | 0.5381 | < 0.0001 | 0.0004 | 0.4385 | < 0.0001 | 0.5158 | 0.5709 | 0.5709 |
| S×F | 0.7951 | 0.0004 | < 0.0001 | < 0.0001 | 0.0008 | < 0.0001 | < 0.0001 | 0.8785 | 0.8785 |
| I×F | 0.8307 | 0.8224 | 0.0003 | 0.3685 | 0.0147 | 0.0012 | < 0.0001 | 0.9563 | 0.9563 |
| Y×S×I | 0.9609 | 0.2220 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.2994 | 0.2994 |
| Y×S×F | 0.5751 | 0.0989 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.8497 | 0.8497 |

| | | | | | | | | | |
|---------|--------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|--------|--------|
| Y×I×F | 0.9696 | 0.8692 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.8991 | 0.8991 |
| S×I×F | 0.9884 | 0.5171 | 0.0121 | < 0.0001 | 0.1754 | < 0.0001 | < 0.0001 | 0.5564 | 0.5564 |
| Y×S×I×F | 0.8808 | 0.7985 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.2274 | 0.2274 |

3 ^a Shoot = branch + bark + wood + litter; leaf was included in loblolly pine because it was part of the dormant season biomass.

4 ^b Root = stump + coarse root + fine root

5 ^c Total = shoot + root

- 1 Supplemental Table 5. Significance levels for N_C (kg N ha⁻¹) of component tissues across four years of resource amendments. *P*-
- 2 values lower than $\alpha = 0.05$ are indicated with bold typeface.

| Effect | Litter | Leaf | Bark | Wood | Branch | Stump | Coarse Root | Fine Root | Fine Root Turnover |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|
| Year (Y) | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Species (S) | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.3672 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Irrigation (I) | 0.0060 | 0.0344 | 0.1145 | < 0.0001 | 0.3857 | 0.0018 | < 0.0001 | 0.0064 | 0.0152 |
| Fertilization (F) | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.0002 |
| Y×S | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Y×I | 0.0470 | 0.0500 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.0392 | 0.2279 | 0.0007 |
| Y×F | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| S×I | 0.2157 | 0.4509 | 0.8137 | 0.0098 | 0.8976 | 0.1347 | 0.0010 | 0.1940 | 0.2664 |
| S×F | 0.0060 | 0.0445 | 0.0882 | 0.0032 | 0.2294 | 0.4530 | < 0.0001 | 0.0183 | 0.2611 |
| I×F | 0.7672 | 0.8930 | 0.8243 | 0.0093 | 0.8667 | 0.3889 | 0.6893 | 0.5636 | 0.4546 |
| Y×S×I | 0.5124 | 0.8964 | < 0.0001 | < 0.0001 | 0.0003 | < 0.0001 | 0.1196 | 0.1339 | 0.0236 |
| Y×S×F | 0.0034 | 0.0333 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.0896 | 0.7456 |

| | | | | | | | | | |
|---------|--------|--------|-----------------|-----------------|-----------------|-----------------|---------------|---------------|---------------|
| Y×I×F | 0.8654 | 0.8411 | < 0.0001 | < 0.0001 | 0.0001 | < 0.0001 | 0.4541 | 0.6562 | 0.0047 |
| S×I×F | 0.7036 | 0.4065 | 0.8445 | 0.1079 | 0.8425 | 0.7644 | 0.0003 | 0.7298 | 0.6421 |
| Y×S×I×F | 0.8744 | 0.4992 | 0.4177 | < 0.0001 | < 0.0001 | 0.0010 | 0.3387 | 0.0056 | 0.0709 |

3 ^a Shoot = branch + bark + wood + litter; leaf was included in loblolly pine because it was part of the dormant season biomass.

4 ^b Root = stump + coarse root + fine root

5 ^c Total = shoot + root

1 Supplemental Table 6. Mean [N] (% of dry weight) for component tissues in 2000 dormant season sampling. Treatments consisted of
 2 control (C), irrigation (I), fertilization (F), and irrigation + fertilization (IF). Treatment means within species sharing a common letter,
 3 and means by species across treatments sharing a common letter are not significantly different (Fisher's LSD, $\alpha = 0.05$).

| Species | Treatment | Shoot | | | | | Root | | | |
|-----------------------|-----------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|
| | | Leaf | Litter | Bark | Wood | Branch | Stump | Coarse | Fine | Fine Turnover |
| Cottonwood (ST66) | C | 2.76 ^{ab} | 1.29 ^a | 3.20 ^a | 0.25 ^c | 0.97 ^a | 1.10 ^a | 1.11 ^a | 1.04 ^a | 1.04 ^a |
| | I | 2.61 ^b | 1.32 ^a | 0.51 ^c | 0.54 ^a | 0.57 ^b | 0.69 ^b | 1.14 ^a | 1.10 ^a | 1.10 ^a |
| | F | 3.06 ^a | 1.39 ^a | 1.06 ^b | 0.45 ^b | 0.23 ^c | 0.13 ^d | 0.49 ^b | 1.19 ^a | 1.19 ^a |
| | IF | 3.07 ^a | 1.31 ^a | 0.37 ^d | 0.14 ^d | 0.55 ^b | 0.30 ^c | 0.59 ^b | 1.15 ^a | 1.15 ^a |
| Cottonwood (S7C15) | C | 3.25 ^a | 1.38 ^a | 1.41 ^b | 0.23 ^c | 1.96 ^a | 0.89 ^b | 0.41 ^d | 1.07 ^a | 1.07 ^a |
| | I | 3.33 ^a | 1.47 ^a | 0.86 ^d | 0.57 ^a | 0.50 ^d | 1.02 ^a | 1.08 ^a | 1.08 ^a | 1.08 ^a |
| | F | 3.33 ^a | 1.39 ^a | 1.93 ^a | 0.34 ^b | 0.86 ^c | 0.80 ^{bc} | 0.63 ^c | 1.17 ^a | 1.17 ^a |
| | IF | 3.33 ^a | 1.53 ^a | 1.14 ^c | 0.27 ^c | 1.26 ^b | 0.75 ^c | 0.76 ^b | 1.10 ^a | 1.10 ^a |
| Sycamore | C | 2.43 ^a | 1.01 ^a | 1.20 ^a | 0.32 ^b | 0.50 ^a | 0.47 ^a | 0.71 ^a | 0.93 ^a | 0.93 ^a |
| | I | 2.23 ^a | 1.16 ^a | 0.64 ^d | 0.32 ^b | 0.29 ^b | 0.40 ^b | 0.67 ^a | 0.93 ^a | 0.93 ^a |

| | | | | | | | | | | |
|---------------|----|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|--------------------|--------------------|
| | F | 2.45 ^a | 1.02 ^a | 1.01 ^b | 0.50 ^a | 0.57 ^a | 0.51 ^a | 0.64 ^a | 1.02 ^a | 1.02 ^a |
| | IF | 2.43 ^a | 1.13 ^a | 0.79 ^c | 0.24 ^c | 0.44 ^{ab} | 0.53 ^a | 0.72 ^a | 1.10 ^a | 1.10 ^a |
| Sweetgum | C | 1.90 ^a | 0.75 ^a | 0.98 ^a | 0.34 ^a | 0.60 ^b | 0.55 ^{ab} | 0.81 ^b | 0.97 ^a | 0.97 ^a |
| | I | 1.95 ^a | 0.73 ^a | 0.77 ^b | 0.17 ^b | 0.27 ^c | 0.11 ^c | 0.59 ^c | 0.89 ^a | 0.89 ^a |
| | F | 2.18 ^a | 0.80 ^a | 1.08 ^a | 0.33 ^a | 0.99 ^a | 0.52 ^b | 0.88 ^b | 0.93 ^a | 0.93 ^a |
| | IF | 2.11 ^a | 0.74 ^a | 0.97 ^a | 0.31 ^a | 0.7 ^{ab} | 0.60 ^a | 1.35 ^a | 1.01 ^a | 1.01 ^a |
| Loblolly Pine | C | 1.64 ^a | 0.62 ^a | 1.21 ^a | 1.24 ^b | 0.89 ^b | 0.62 ^b | 0.76 ^a | 0.92 ^a | 0.92 ^a |
| | I | 1.70 ^a | 0.65 ^a | 0.80 ^b | 0.42 ^c | 1.32 ^a | 0.46 ^c | 0.59 ^b | 0.97 ^a | 0.97 ^a |
| | F | 1.60 ^a | 0.62 ^a | 0.75 ^b | 0.31 ^d | 0.54 ^c | 0.83 ^a | 0.69 ^a | 0.92 ^a | 0.92 ^a |
| | IF | 1.75 ^a | 0.66 ^a | 1.08 ^a | 1.56 ^a | 0.77 ^{bc} | 0.84 ^a | 0.36 ^c | 0.76 ^a | 0.76 ^a |
| Species Means | | | | | | | | | | |
| ST66 | — | 2.88 ^b | 1.33 ^a | 1.29 ^b | 0.35 ^b | 0.58 ^{cd} | 0.56 ^c | 0.83 ^b | 1.12 ^a | 1.12 ^a |
| S7C15 | — | 3.31 ^a | 1.44 ^a | 1.34 ^a | 0.35 ^b | 1.14 ^a | 0.87 ^a | 0.72 ^c | 1.11 ^{ab} | 1.11 ^{ab} |
| Sycamore | — | 2.38 ^c | 1.08 ^b | 0.91 ^c | 0.35 ^b | 0.45 ^d | 0.48 ^c | 0.69 ^c | 0.99 ^{bc} | 0.99 ^{bc} |
| Sweetgum | — | 2.04 ^d | 0.76 ^c | 0.95 ^c | 0.29 ^c | 0.65 ^c | 0.45 ^d | 0.91 ^a | 0.95 ^c | 0.95 ^c |
| Loblolly Pine | — | 1.68 ^e | 0.64 ^c | 0.96 ^c | 0.88 ^a | 0.88 ^b | 0.69 ^b | 0.60 ^d | 0.89 ^c | 0.89 ^c |

1 Supplemental Table 7. Mean [N] (% of dry weight) for component tissues in 2001 dormant season sampling. Treatments consisted of
 2 control (C), irrigation (I), fertilization (F), and irrigation + fertilization (IF). Treatment means within species sharing a common letter,
 3 and means by species across treatments sharing a common letter are not significantly different (Fisher's LSD, $\alpha = 0.05$).

| Species | Treatment | Shoot | | | | | Root | | | |
|-----------------------|-----------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|
| | | Leaf | Litter | Bark | Wood | Branch | Stump | Coarse | Fine | Fine Turnover |
| Cottonwood (ST66) | C | 1.96 ^a | 1.29 ^a | 1.48 ^a | 0.42 ^a | 1.22 ^a | 0.87 ^a | 0.75 ^b | 1.04 ^a | 1.04 ^a |
| | I | 2.00 ^a | 1.32 ^a | 0.87 ^b | 0.37 ^{ab} | 0.91 ^b | 0.67 ^b | 0.94 ^a | 1.10 ^a | 1.10 ^a |
| | F | 1.90 ^a | 1.39 ^a | 1.34 ^a | 0.43 ^a | 0.80 ^b | 0.35 ^d | 0.87 ^a | 1.19 ^a | 1.19 ^a |
| | IF | 2.03 ^a | 1.31 ^a | 0.84 ^b | 0.33 ^b | 1.04 ^{ab} | 0.45 ^c | 0.86 ^a | 1.15 ^a | 1.15 ^a |
| Cottonwood (S7C15) | C | 1.88 ^a | 1.38 ^a | 1.33 ^a | 0.35 ^a | 1.39 ^a | 0.75 ^{ab} | 0.64 ^b | 1.07 ^a | 1.07 ^a |
| | I | 1.84 ^a | 1.47 ^a | 1.10 ^b | 0.46 ^c | 0.83 ^b | 0.77 ^a | 0.89 ^a | 1.08 ^a | 1.08 ^a |
| | F | 1.94 ^a | 1.39 ^a | 1.52 ^a | 0.46 ^{bc} | 0.98 ^b | 0.74 ^{ab} | 0.83 ^a | 1.17 ^a | 1.17 ^a |
| | IF | 1.63 ^a | 1.53 ^a | 1.12 ^b | 0.39 ^{ab} | 1.08 ^{ab} | 0.68 ^b | 0.84 ^a | 1.10 ^a | 1.10 ^a |
| Sycamore | C | 1.52 ^a | 1.01 ^a | 0.91 ^a | 0.43 ^a | 0.60 ^a | 0.56 ^a | 0.72 ^b | 0.93 ^a | 0.93 ^a |
| | I | 1.63 ^a | 1.16 ^a | 0.71 ^b | 0.46 ^a | 0.52 ^a | 0.49 ^b | 0.72 ^b | 0.93 ^a | 0.93 ^a |

| | | | | | | | | | | |
|---------------|----|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | F | 1.69 ^a | 1.02 ^a | 0.98 ^a | 0.50 ^a | 0.64 ^a | 0.63 ^a | 0.93 ^a | 1.02 ^a | 1.02 ^a |
| | IF | 1.63 ^a | 1.13 ^a | 0.94 ^a | 0.35 ^b | 0.59 ^a | 0.61 ^a | 0.80 ^b | 1.10 ^a | 1.10 ^a |
| Sweetgum | C | 1.63 ^a | 0.75 ^a | 0.99 ^a | 0.35 ^a | 0.62 ^a | 0.50 ^{bc} | 0.94 ^a | 0.97 ^a | 0.97 ^a |
| | I | 1.19 ^b | 0.73 ^a | 0.85 ^a | 0.31 ^a | 0.67 ^a | 0.67 ^a | 0.90 ^a | 0.89 ^a | 0.89 ^a |
| | F | 1.76 ^a | 0.80 ^a | 0.93 ^a | 0.36 ^a | 0.74 ^a | 0.57 ^b | 0.95 ^a | 0.93 ^a | 0.93 ^a |
| | IF | 1.50 ^a | 0.74 ^a | 0.91 ^a | 0.33 ^a | 0.68 ^a | 0.47 ^c | 0.92 ^a | 1.01 ^a | 1.01 ^a |
| Loblolly Pine | C | 1.43 ^a | 0.62 ^a | 0.65 ^a | 0.42 ^{ab} | 0.69 ^{ab} | 0.39 ^b | 0.49 ^a | 0.92 ^a | 0.92 ^a |
| | I | 1.52 ^a | 0.76 ^a | 0.60 ^{ab} | 0.42 ^{ab} | 0.55 ^b | 0.51 ^a | 0.49 ^a | 0.97 ^a | 0.97 ^a |
| | F | 1.29 ^a | 0.62 ^a | 0.63 ^{ab} | 0.37 ^b | 0.59 ^b | 0.36 ^b | 0.36 ^b | 0.92 ^a | 0.92 ^a |
| | IF | 1.32 ^a | 0.69 ^a | 0.52 ^b | 0.47 ^a | 0.92 ^a | 0.37 ^b | 0.42 ^{ab} | 0.76 ^a | 0.76 ^a |
| Species Means | | | | | | | | | | |
| ST66 | — | 1.97 ^a | 1.33 ^a | 1.13 ^b | 0.39 ^b | 0.99 ^a | 0.59 ^b | 0.86 ^b | 11.2 ^a | 1.12 ^a |
| S7C15 | — | 1.82 ^a | 1.44 ^a | 1.27 ^a | 0.41 ^{ab} | 1.07 ^a | 0.73 ^a | 0.80 ^c | 11.1 ^{ab} | 1.11 ^{ab} |
| Sycamore | — | 1.62 ^b | 1.08 ^b | 0.89 ^c | 0.43 ^a | 0.59 ^b | 0.57 ^b | 0.79 ^c | 9.9 ^{bc} | 0.99 ^{bc} |
| Sweetgum | — | 1.52 ^{bc} | 0.76 ^c | 0.92 ^c | 0.34 ^c | 0.68 ^b | 0.55 ^b | 0.93 ^a | 9.5 ^c | 0.95 ^c |
| Loblolly Pine | — | 1.39 ^c | 0.67 ^c | 0.60 ^d | 0.42 ^{ab} | 0.69 ^b | 0.41 ^c | 0.44 ^d | 8.9 ^c | 0.89 ^c |

- 1 Supplemental Table 8. Mean [N] (% of dry weight) for component tissues in 2002 dormant season sampling. Treatments consisted of
- 2 control (C), irrigation (I), fertilization (F), and irrigation + fertilization (IF). Treatment means within species sharing a common letter,
- 3 and means by species across treatments sharing a common letter are not significantly different (Fisher's LSD, $\alpha = 0.05$).

| Species | Treatment | Shoot | | | | | Root | | | |
|-----------------------|-----------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|
| | | Leaf | Litter | Bark | Wood | Branch | Stump | Coarse | Fine | Fine Turnover |
| Cottonwood (ST66) | C | 1.63 ^b | 1.77 ^a | 1.28 ^b | 0.47 ^b | 1.08 ^b | 0.78 ^a | 0.85 ^b | 1.55 ^a | 1.55 ^a |
| | I | 1.43 ^b | 1.66 ^a | 1.35 ^b | 0.61 ^a | 1.07 ^b | 0.68 ^b | 0.92 ^b | 1.26 ^b | 1.26 ^b |
| | F | 2.28 ^a | 1.50 ^a | 1.56 ^a | 0.39 ^c | 1.58 ^a | 0.70 ^{ab} | 1.22 ^a | 1.58 ^a | 1.58 ^a |
| | IF | 2.42 ^a | 1.49 ^a | 1.26 ^b | 0.56 ^a | 1.56 ^a | 0.58 ^c | 1.13 ^a | 1.54 ^a | 1.54 ^a |
| Cottonwood (S7C15) | C | 1.87 ^b | 0.84 ^a | 1.59 ^a | 0.48 ^a | 1.48 ^a | 0.66 ^a | 0.90 ^b | 1.32 ^a | 1.32 ^a |
| | I | 1.87 ^b | 1.09 ^a | 1.20 ^b | 0.37 ^{bc} | 1.45 ^a | 0.53 ^b | 0.84 ^b | 1.34 ^a | 1.34 ^a |
| | F | 2.35 ^a | 1.22 ^a | 1.07 ^{bc} | 0.42 ^{ab} | 1.00 ^b | 0.71 ^a | 1.10 ^a | 1.47 ^a | 1.47 ^a |
| | IF | 2.54 ^a | 1.06 ^a | 1.00 ^c | 0.36 ^c | 1.10 ^b | 0.53 ^b | 0.70 ^c | 1.54 ^a | 1.54 ^a |
| Sycamore | C | 1.46 ^c | 1.06 ^a | 0.80 ^b | 0.39 ^{ab} | 0.59 ^b | 0.41 ^b | 0.54 ^b | 1.07 ^b | 1.07 ^b |
| | I | 1.58 ^{bc} | 0.99 ^a | 0.88 ^b | 0.44 ^a | 0.50 ^b | 0.42 ^b | 0.58 ^b | 1.10 ^b | 1.10 ^b |

| | | | | | | | | | | |
|---------------|----|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|
| | F | 2.20 ^a | 1.07 ^a | 0.89 ^b | 0.35 ^b | 0.87 ^a | 0.47 ^b | 0.82 ^a | 1.37 ^a | 1.37 ^a |
| | IF | 1.87 ^{ab} | 1.30 ^a | 1.08 ^a | 0.39 ^{ab} | 0.58 ^b | 0.55 ^a | 0.73 ^a | 1.27 ^{ab} | 1.27 ^{ab} |
| Sweetgum | C | 1.06 ^b | 1.25 ^a | 0.99 ^a | 0.28 ^b | 0.59 ^b | 0.40 ^b | 0.77 ^b | 0.76 ^a | 0.76 ^a |
| | I | 1.13 ^b | 1.30 ^a | 0.88 ^a | 0.39 ^a | 0.37 ^c | 0.24 ^c | 0.71 ^b | 0.72 ^a | 0.72 ^a |
| | F | 1.41 ^a | 1.39 ^a | 0.64 ^b | 0.38 ^a | 0.85 ^a | 0.57 ^a | 0.89 ^a | 0.82 ^a | 0.82 ^a |
| | IF | 1.41 ^a | 1.21 ^a | 0.88 ^a | 0.34 ^a | 1.05 ^a | 0.54 ^a | 0.95 ^a | 0.86 ^a | 0.86 ^a |
| Loblolly Pine | C | 1.15 ^a | 0.92 ^a | 0.37 ^a | 0.37 ^a | 0.53 ^{ab} | 0.32 ^d | 0.55 ^b | 0.64 ^a | 0.64 ^a |
| | I | 1.13 ^a | 0.90 ^a | 0.30 ^{ab} | 0.41 ^a | 0.46 ^b | 0.53 ^b | 1.09 ^a | 0.71 ^a | 0.71 ^a |
| | F | 1.14 ^a | 0.97 ^a | 0.27 ^b | 0.24 ^b | 0.42 ^b | 0.67 ^a | 0.51 ^{bc} | 0.73 ^a | 0.73 ^a |
| | IF | 1.20 ^a | 0.89 ^a | 0.16 ^c | 0.18 ^c | 0.69 ^a | 0.40 ^c | 0.45 ^c | 0.64 ^a | 0.64 ^a |
| Species Means | | | | | | | | | | |
| ST66 | — | 1.94 ^b | 1.60 ^a | 1.36 ^a | 0.51 ^a | 1.32 ^a | 0.69 ^a | 1.03 ^a | 1.48 ^a | 1.48 ^a |
| S7C15 | — | 2.16 ^a | 1.06 ^{cd} | 1.22 ^b | 0.41 ^b | 1.26 ^b | 0.61 ^b | 0.88 ^b | 1.41 ^a | 1.41 ^a |
| Sycamore | — | 1.78 ^b | 1.11 ^{bc} | 0.91 ^c | 0.39 ^b | 0.64 ^c | 0.46 ^c | 0.67 ^d | 1.20 ^b | 1.20 ^b |
| Sweetgum | — | 1.25 ^c | 1.29 ^b | 0.85 ^c | 0.35 ^c | 0.72 ^c | 0.44 ^d | 0.83 ^c | 0.79 ^c | 0.79 ^c |
| Loblolly Pine | — | 1.16 ^c | 0.92 ^d | 0.28 ^d | 0.30 ^d | 0.53 ^d | 0.48 ^c | 0.65 ^d | 0.68 ^d | 0.68 ^d |

1 Supplemental Table 9. Mean [N] (% of dry weight) for component tissues in 2003 dormant season sampling. Treatments consisted of
 2 control (C), irrigation (I), fertilization (F), and irrigation + fertilization (IF). Treatment means within species sharing a common letter,
 3 and means by species across treatments sharing a common letter are not significantly different (Fisher's LSD, $\alpha = 0.05$).

| Species | Treatment | Shoot | | | | | Root | | | |
|-----------------------|-----------|--------------------|--------------------|-------------------|--------------------|-------------------|--------------------|--------------------|-------------------|-------------------|
| | | Leaf | Litter | Bark | Wood | Branch | Stump | Coarse | Fine | Fine Turnover |
| Cottonwood (ST66) | C | 2.21 ^b | 1.36 ^a | 2.06 ^a | 0.66 ^a | 0.91 ^d | 0.99 ^a | 1.09 ^b | 1.55 ^a | 1.55 ^a |
| | I | 2.19 ^b | 1.26 ^a | 1.23 ^b | 0.54 ^b | 1.29 ^c | 0.73 ^b | 0.74 ^c | 1.26 ^b | 1.26 ^b |
| | F | 2.62 ^a | 1.64 ^a | 1.90 ^a | 0.24 ^c | 3.90 ^a | 0.88 ^c | 1.24 ^a | 1.58 ^a | 1.58 ^a |
| | IF | 2.48 ^{ab} | 1.62 ^a | 1.27 ^b | 0.54 ^b | 1.82 ^b | 0.68 ^d | 1.19 ^{ab} | 1.54 ^a | 1.54 ^a |
| Cottonwood (S7C15) | C | 2.12 ^b | 1.43 ^a | 1.19 ^a | 0.38 ^a | 1.17 ^a | 0.58 ^a | 0.72 ^b | 1.32 ^a | 1.32 ^a |
| | I | 2.26 ^b | 1.59 ^a | 1.11 ^a | 0.32 ^{ab} | 1.27 ^a | 0.53 ^a | 0.69 ^{bc} | 1.34 ^a | 1.34 ^a |
| | F | 2.84 ^a | 1.74 ^a | 1.11 ^a | 0.32 ^{ab} | 1.10 ^a | 0.53 ^a | 0.89 ^a | 1.47 ^a | 1.47 ^a |
| | IF | 2.71 ^a | 1.72 ^a | 0.91 ^b | 0.30 ^b | 1.00 ^a | 0.54 ^a | 0.61 ^c | 1.54 ^a | 1.54 ^a |
| Sycamore | C | 1.83 ^b | 1.02 ^b | 0.69 ^a | 0.30 ^{ab} | 0.45 ^a | 0.33 ^{bc} | 0.45 ^c | 1.07 ^b | 1.07 ^b |
| | I | 2.11 ^b | 1.18 ^{ab} | 0.67 ^a | 0.32 ^{ab} | 0.44 ^a | 0.36 ^b | 0.47 ^{bc} | 1.10 ^b | 1.10 ^b |

| | | | | | | | | | | |
|---------------|----|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|
| | F | 2.52 ^a | 1.50 ^a | 0.72 ^a | 0.28 ^b | 0.58 ^a | 0.30 ^c | 0.52 ^b | 1.37 ^a | 1.37 ^a |
| | IF | 2.68 ^a | 1.46 ^{ab} | 1.10 ^a | 0.34 ^a | 0.58 ^a | 0.46 ^a | 0.60 ^a | 1.27 ^{ab} | 1.27 ^{ab} |
| Sweetgum | C | 1.22 ^b | 0.60 ^a | 0.59 ^b | 0.30 ^a | 0.65 ^{ab} | 0.34 ^a | 0.68 ^c | 0.76 ^a | 0.76 ^a |
| | I | 1.16 ^b | 0.68 ^a | 0.73 ^a | 0.27 ^a | 0.49 ^b | 0.25 ^b | 0.68 ^c | 0.72 ^a | 0.72 ^a |
| | F | 1.64 ^a | 0.69 ^a | 0.79 ^a | 0.29 ^a | 0.72 ^a | 0.33 ^a | 1.16 ^a | 0.82 ^a | 0.82 ^a |
| | IF | 1.65 ^a | 0.72 ^a | 0.70 ^{ab} | 0.26 ^a | 0.80 ^a | 0.34 ^a | 1.02 ^b | 0.86 ^a | 0.86 ^a |
| Loblolly Pine | C | 1.29 ^a | 0.47 ^a | 0.26 ^c | 0.24 ^b | 0.89 ^a | 0.24 ^b | 0.63 ^c | 0.64 ^a | 0.64 ^a |
| | I | 1.26 ^a | 0.43 ^a | 0.29 ^{bc} | 0.30 ^a | 0.64 ^{ab} | 0.32 ^a | 0.90 ^a | 0.71 ^a | 0.71 ^a |
| | F | 1.46 ^a | 0.49 ^a | 0.58 ^a | 0.20 ^b | 0.84 ^a | 0.29 ^{ab} | 0.77 ^b | 0.73 ^a | 0.73 ^a |
| | IF | 1.43 ^a | 0.47 ^a | 0.37 ^b | 0.24 ^{ab} | 0.50 ^b | 0.26 ^b | 0.47 ^d | 0.64 ^a | 0.64 ^a |
| Species Means | | | | | | | | | | |
| ST66 | — | 2.38 ^{ab} | 1.47 ^{ab} | 1.61 ^a | 0.50 ^a | 19.8 ^a | 0.82 ^a | 1.06 ^a | 1.48 ^a | 1.48 ^a |
| S7C15 | — | 2.48 ^a | 1.62 ^a | 1.08 ^b | 0.33 ^b | 11.4 ^b | 0.55 ^b | 0.73 ^c | 1.41 ^a | 1.41 ^a |
| Sycamore | — | 2.29 ^b | 1.29 ^b | 0.80 ^c | 0.31 ^b | 5.1 ^d | 0.36 ^c | 0.51 ^d | 1.20 ^b | 1.20 ^b |
| Sweetgum | — | 1.42 ^c | 0.67 ^c | 0.70 ^d | 0.28 ^c | 6.7 ^c | 0.31 ^d | 0.89 ^b | 0.79 ^c | 0.79 ^c |
| Loblolly Pine | — | 1.36 ^c | 0.47 ^d | 0.38 ^e | 0.25 ^d | 7.2 ^c | 0.28 ^e | 0.69 ^c | 0.68 ^d | 0.68 ^d |

- 1 Supplemental Table 10. Mean N_C (kg N ha⁻¹) for component tissues in 2000 dormant season sampling. Treatments consisted of control
 2 (C), irrigation (I), fertilization (F), and irrigation + fertilization (IF). Treatment means within species sharing a common letter, and
 3 means by species across treatments sharing a common letter are not significantly different (Fisher's LSD, $\alpha = 0.05$).

| Species | Treatment | Shoot | | | | | Root | | | |
|-----------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | Leaf | Litter | Bark | Wood | Branch | Stump | Coarse | Fine | Fine Turnover |
| Cottonwood (ST66) | C | 0.09 ^a | 0.04 ^a | 0.29 ^a | 0.10 ^a | 0.51 ^a | 0.59 ^a | 0.72 ^a | 2.09 ^a | 0.81 ^a |
| | I | 0.17 ^a | 0.08 ^a | 0.14 ^a | 0.45 ^a | 0.62 ^a | 0.65 ^a | 1.35 ^a | 1.38 ^a | 0.55 ^a |
| | F | 0.21 ^a | 0.09 ^a | 0.19 ^a | 0.37 ^a | 0.18 ^a | 0.09 ^a | 0.69 ^a | 1.08 ^a | 0.47 ^a |
| | IF | 0.24 ^a | 0.10 ^a | 0.19 ^a | 0.29 ^a | 1.41 ^a | 0.53 ^a | 1.78 ^a | 2.43 ^a | 0.94 ^a |
| Cottonwood (S7C15) | C | 0.14 ^a | 0.06 ^a | 0.28 ^a | 0.15 ^a | 1.31 ^a | 0.63 ^a | 0.28 ^a | 2.09 ^a | 0.81 ^a |
| | I | 0.18 ^a | 0.08 ^a | 0.27 ^a | 0.34 ^a | 0.87 ^a | 0.88 ^a | 1.05 ^a | 1.37 ^a | 0.55 ^a |
| | F | 0.30 ^a | 0.12 ^a | 1.29 ^a | 0.60 ^a | 2.50 ^a | 1.11 ^a | 0.66 ^a | 2.46 ^a | 1.06 ^a |
| | IF | 0.47 ^a | 0.22 ^a | 1.09 ^a | 0.76 ^a | 3.80 ^a | 1.23 ^a | 1.41 ^a | 4.92 ^a | 1.90 ^a |
| Sycamore | C | 0.25 ^a | 0.11 ^a | 0.60 ^a | 1.00 ^a | 1.05 ^a | 1.17 ^a | 1.83 ^a | 2.41 ^a | 0.93 ^a |
| | I | 0.50 ^a | 0.26 ^a | 0.51 ^a | 1.31 ^a | 1.02 ^a | 1.39 ^a | 2.27 ^a | 2.81 ^a | 1.12 ^a |

| | | | | | | | | | | |
|---------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|
| | F | 0.36 ^a | 0.15 ^a | 0.92 ^a | 3.39 ^a | 3.99 ^a | 2.08 ^a | 3.97 ^a | 5.27 ^a | 2.27 ^a |
| | IF | 0.58 ^a | 0.27 ^a | 0.76 ^a | 1.69 ^a | 2.76 ^a | 2.11 ^a | 4.29 ^a | 3.22 ^a | 1.24 ^a |
| Sweetgum | C | 0.13 ^a | 0.05 ^a | 0.28 ^a | 0.39 ^a | 0.52 ^a | 0.51 ^a | 0.44 ^b | 1.17 ^a | 0.45 ^a |
| | I | 0.11 ^a | 0.04 ^a | 0.16 ^a | 0.27 ^a | 0.39 ^a | 0.09 ^a | 2.35 ^{ab} | 1.28 ^a | 0.51 ^a |
| | F | 0.14 ^a | 0.05 ^a | 0.09 ^a | 0.10 ^a | 1.10 ^a | 1.07 ^a | 1.50 ^b | 0.57 ^a | 0.25 ^a |
| | IF | 0.34 ^a | 0.12 ^a | 0.36 ^a | 0.85 ^a | 2.22 ^a | 1.07 ^a | 8.04 ^a | 0.82 ^a | 0.32 ^a |
| Loblolly Pine | C | 0.92 ^a | 0.00 ^a | 0.05 ^a | 0.04 ^a | 0.05 ^a | 0.08 ^a | 0.88 ^a | 0.16 ^a | 0.08 ^a |
| | I | 0.42 ^a | 0.00 ^a | 0.02 ^a | 0.02 ^a | 0.04 ^a | 0.02 ^a | 0.12 ^a | 0.30 ^a | 0.12 ^a |
| | F | 1.63 ^a | 0.00 ^a | 0.05 ^a | 0.06 ^a | 0.20 ^a | 0.08 ^a | 0.78 ^a | 0.21 ^a | 0.15 ^a |
| | IF | 0.27 ^a | 0.00 ^a | 0.02 ^a | 0.02 ^a | 0.02 ^a | 0.06 ^a | 0.32 ^a | 0.94 ^a | 0.35 ^a |
| Species Means | | | | | | | | | | |
| ST66 | — | 0.17 ^a | 0.08 ^a | 0.20 ^a | 0.30 ^a | 0.68 ^a | 0.46 ^a | 1.14 ^a | 1.75 ^a | 0.69 ^a |
| S7C15 | — | 0.27 ^a | 0.12 ^a | 0.73 ^a | 0.46 ^a | 2.12 ^a | 0.96 ^{ab} | 0.85 ^a | 2.71 ^a | 1.08 ^a |
| Sycamore | — | 0.42 ^a | 0.20 ^a | 0.70 ^a | 1.85 ^a | 2.20 ^a | 1.69 ^a | 3.09 ^a | 3.43 ^a | 1.39 ^a |
| Sweetgum | — | 0.18 ^a | 0.06 ^a | 0.22 ^a | 0.40 ^a | 1.06 ^a | 0.69 ^b | 3.08 ^a | 0.96 ^a | 0.38 ^a |
| Loblolly Pine | — | 0.81 ^a | 0.00 ^a | 0.04 ^a | 0.04 ^a | 0.08 ^a | 0.06 ^b | 0.52 ^a | 0.40 ^a | 0.18 ^a |

1 Supplemental Table 11. Mean N_C (kg N ha⁻¹) for component tissues in 2001 dormant season sampling. Treatments consisted of control
 2 (C), irrigation (I), fertilization (F), and irrigation + fertilization (IF). Treatment means within species sharing a common letter, and
 3 means by species across treatments sharing a common letter are not significantly different (Fisher's LSD, $\alpha = 0.05$).

| Species | Treatment | Shoot | | | | | Root | | | |
|-----------------------|-----------|-------------------|-------------------|------------------|--------------------|-------------------|------------------|-------------------|--------------------|-------------------|
| | | Leaf | Litter | Bark | Wood | Branch | Stump | Coarse | Fine | Fine Turnover |
| Cottonwood (ST66) | C | 9.1 ^a | 6.0 ^a | 1.3 ^a | 1.1 ^a | 2.9 ^a | 1.8 ^a | 4.0 ^a | 7.2 ^b | 4.6 ^a |
| | I | 26.9 ^a | 18.3 ^a | 1.6 ^a | 2.4 ^a | 4.7 ^a | 2.5 ^a | 6.1 ^a | 16.8 ^{ab} | 7.5 ^a |
| | F | 25.3 ^a | 18.1 ^a | 2.7 ^a | 2.7 ^a | 4.7 ^a | 1.4 ^a | 8.5 ^a | 20.5 ^a | 10.9 ^a |
| | IF | 33.6 ^a | 22.0 ^a | 2.9 ^a | 4.8 ^a | 9.6 ^a | 2.7 ^a | 8.6 ^a | 21.5 ^a | 10.5 ^a |
| Cottonwood (S7C15) | C | 19.9 ^a | 14.7 ^a | 1.7 ^a | 1.5 ^a | 5.1 ^a | 1.9 ^a | 2.4 ^b | 6.8 ^{ab} | 4.3 ^a |
| | I | 15.3 ^a | 13.0 ^a | 2.5 ^a | 3.2 ^a | 7.2 ^a | 2.6 ^a | 11.5 ^a | 15.7 ^a | 7.0 ^a |
| | F | 30.0 ^a | 20.9 ^a | 4.0 ^a | 3.8 ^a | 8.2 ^a | 3.0 ^a | 7.9 ^{ab} | 14.5 ^{ab} | 7.7 ^a |
| | IF | 25.1 ^a | 23.6 ^a | 4.5 ^a | 5.5 ^a | 11.2 ^a | 3.4 ^a | 9.3 ^a | 5.3 ^b | 2.6 ^a |
| Sycamore | C | 18.6 ^a | 11.4 ^a | 1.6 ^a | 5.4 ^b | 5.0 ^a | 3.1 ^b | 5.7 ^b | 13.4 ^b | 8.5 ^a |
| | I | 29.1 ^a | 19.4 ^a | 2.2 ^a | 10.4 ^{ab} | 8.3 ^a | 5.2 ^a | 7.8 ^{ab} | 17.9 ^b | 7.9 ^a |

| | | | | | | | | | | |
|---------------|----|--------------------|-------------------|------------------|--------------------|-------------------|-------------------|-------------------|--------------------|-------------------|
| | F | 30.7 ^a | 18.5 ^a | 3.1 ^a | 13.5 ^a | 11.8 ^a | 6.9 ^a | 13.5 ^a | 15.7 ^b | 8.4 ^a |
| | IF | 30.3 ^a | 21.1 ^a | 3.1 ^a | 10.6 ^{ab} | 13.3 ^a | 6.4 ^a | 12.3 ^a | 29.7 ^a | 14.4 ^a |
| Sweetgum | C | 7.4 ^a | 3.5 ^a | 1.0 ^a | 2.5 ^a | 3.6 ^a | 1.7 ^b | 6.3 ^a | 5.1 ^b | 3.2 ^a |
| | I | 4.1 ^a | 2.4 ^a | 1.0 ^a | 2.8 ^a | 5.6 ^a | 3.4 ^{ab} | 5.8 ^a | 8.0 ^b | 3.5 ^a |
| | F | 7.3 ^a | 3.3 ^a | 0.8 ^a | 2.2 ^a | 5.2 ^a | 3.2 ^{ab} | 7.2 ^a | 13.7 ^{ab} | 7.3 ^a |
| | IF | 7.9 ^a | 3.9 ^a | 1.5 ^a | 4.5 ^a | 8.9 ^a | 3.9 ^b | 9.8 ^a | 18.3 ^a | 8.9 ^a |
| Loblolly Pine | C | 9.6 ^a | 0.04 ^a | 0.5 ^a | 1.1 ^a | 1.8 ^a | 0.8 ^a | 0.6 ^a | 3.1 ^a | 2.1 ^a |
| | I | 9.6 ^a | 0.06 ^a | 0.4 ^a | 0.9 ^a | 1.2 ^a | 0.8 ^a | 0.6 ^a | 2.7 ^a | 2.2 ^a |
| | F | 14.9 ^a | 0.14 ^a | 0.9 ^a | 1.8 ^a | 2.5 ^a | 1.0 ^a | 0.8 ^a | 3.4 ^a | 2.0 ^a |
| | IF | 17.6 ^a | 0.02 ^a | 1.1 ^a | 4.0 ^a | 6.3 ^a | 1.3 ^a | 1.1 ^a | 4.0 ^a | 2.9 ^a |
| Species Means | | | | | | | | | | |
| ST66 | — | 23.8 ^a | 16.1 ^a | 2.1 ^a | 2.7 ^b | 5.5 ^a | 2.1 ^b | 6.8 ^b | 16.5 ^a | 8.4 ^a |
| S7C15 | — | 22.6 ^a | 18.0 ^a | 3.2 ^a | 3.5 ^b | 7.9 ^a | 2.7 ^b | 7.8 ^{ab} | 10.6 ^b | 5.4 ^{ab} |
| Sycamore | — | 27.2 ^a | 17.6 ^a | 2.5 ^a | 10.0 ^a | 9.6 ^a | 5.4 ^a | 9.8 ^a | 19.2 ^a | 9.8 ^a |
| Sweetgum | — | 6.7 ^b | 3.3 ^b | 1.1 ^a | 3.0 ^b | 5.8 ^a | 3.1 ^b | 7.3 ^{ab} | 11.3 ^b | 5.7 ^{ab} |
| Loblolly Pine | — | 12.9 ^{ab} | 0.07 ^b | 0.7 ^a | 1.9 ^b | 2.9 ^a | 1.0 ^c | 0.8 ^c | 3.3 ^c | 2.3 ^b |

1 Supplemental Table 12. Mean N_C (kg N ha⁻¹) for component tissues in 2002 dormant season sampling. Treatments consisted of control
 2 (C), irrigation (I), fertilization (F), and irrigation + fertilization (IF). Treatment means within species sharing a common letter, and
 3 means by species across treatments sharing a common letter are not significantly different (Fisher's LSD, $\alpha = 0.05$).

| Species | Treatment | Shoot | | | | | Root | | | |
|-----------------------|-----------|--------------------|-------------------|--------------------|--------------------|--------------------|-------------------|--------------------|-------------------|--------------------|
| | | Leaf | Litter | Bark | Wood | Branch | Stump | Coarse | Fine | Fine Turnover |
| Cottonwood (ST66) | C | 29.8 ^c | 32.6 ^c | 3.8 ^c | 3.3 ^b | 5.8 ^b | 2.9 ^c | 9.7 ^c | 14.0 ^b | 8.5 ^b |
| | I | 37.7 ^{bc} | 43.3 ^b | 6.9 ^{bc} | 7.7 ^b | 13.3 ^b | 4.5 ^{bc} | 10.2 ^c | 20.1 ^b | 11.4 ^{ab} |
| | F | 64.4 ^b | 42.3 ^b | 11.4 ^b | 7.2 ^b | 23.1 ^{ab} | 6.0 ^b | 17.5 ^b | 41.4 ^a | 18.5 ^a |
| | IF | 107.5 ^a | 66.0 ^a | 19.0 ^a | 30.8 ^a | 34.8 ^a | 8.4 ^a | 27.4 ^a | 42.6 ^a | 14.4 ^{ab} |
| Cottonwood (S7C15) | C | 43.7 ^b | 17.9 ^a | 4.3 ^c | 3.6 ^b | 11.5 ^a | 2.4 ^b | 8.5 ^b | 19.0 ^b | 11.5 ^a |
| | I | 50.8 ^b | 27.9 ^a | 8.5 ^{bc} | 7.9 ^b | 19.1 ^a | 3.7 ^{ab} | 13.2 ^{ab} | 21.4 ^b | 12.2 ^a |
| | F | 71.4 ^{ab} | 36.2 ^a | 11.4 ^{ab} | 10.7 ^{ab} | 17.4 ^a | 4.6 ^a | 17.8 ^a | 23.9 ^b | 10.7 ^a |
| | IF | 89.4 ^a | 38.6 ^a | 14.6 ^a | 17.1 ^a | 24.9 ^a | 5.5 ^a | 15.5 ^a | 36.7 ^a | 12.3 ^a |
| Sycamore | C | 37.4 ^c | 28.1 ^c | 3.1 ^b | 10.6 ^c | 7.5 ^b | 3.2 ^c | 7.9 ^c | 8.9 ^c | 5.4 ^a |
| | I | 99.2 ^b | 62.8 ^b | 5.4 ^b | 24.3 ^b | 15.6 ^{ab} | 6.6 ^b | 17.3 ^{ab} | 21.9 ^b | 12.4 ^a |

| | | | | | | | | | | |
|---------------|----|---------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| | F | 129.4 ^{ab} | 64.6 ^b | 6.6 ^b | 27.2 ^b | 18.2 ^{ab} | 6.7 ^b | 15.4 ^b | 26.9 ^{ab} | 12.0 ^a |
| | IF | 132.7 ^a | 97.1 ^a | 12.8 ^a | 49.9 ^a | 28.4 ^a | 10.3 ^a | 21.3 ^a | 33.1 ^a | 11.2 ^a |
| Sweetgum | C | 14.7 ^b | 17.8 ^b | 2.6 ^a | 6.6 ^b | 9.9 ^{ab} | 4.1 ^b | 14.5 ^c | 12.0 ^a | 7.2 ^a |
| | I | 16.8 ^b | 19.4 ^b | 3.7 ^a | 9.3 ^b | 6.4 ^b | 2.4 ^b | 18.3 ^c | 11.8 ^a | 6.7 ^a |
| | F | 36.8 ^{ab} | 36.6 ^{ab} | 2.7 ^a | 12.8 ^b | 19.5 ^{ab} | 6.9 ^a | 29.1 ^b | 20.0 ^a | 8.9 ^a |
| | IF | 50.1 ^a | 43.4 ^a | 6.3 ^a | 21.3 ^a | 25.7 ^a | 8.3 ^a | 42.3 ^a | 17.8 ^a | 6.0 ^a |
| Loblolly Pine | C | 32.3 ^a | 1.3 ^a | 2.7 ^a | 7.2 ^a | 5.6 ^a | 3.2 ^{bc} | 9.4 ^a | 6.0 ^a | 1.8 ^a |
| | I | 23.0 ^a | 1.5 ^a | 2.5 ^a | 6.0 ^a | 5.1 ^a | 1.7 ^c | 8.3 ^a | 6.0 ^a | 5.7 ^a |
| | F | 27.8 ^a | 2.1 ^a | 3.3 ^a | 8.2 ^a | 8.3 ^a | 3.7 ^{ab} | 11.5 ^a | 8.4 ^a | 2.7 ^a |
| | IF | 37.2 ^a | 2.4 ^a | 2.5 ^a | 8.5 ^a | 13.2 ^a | 5.2 ^a | 13.2 ^a | 12.5 ^a | 3.9 ^a |
| Species Means | | | | | | | | | | |
| ST66 | — | 59.8 ^b | 46.0 ^b | 10.3 ^a | 12.3 ^b | 19.2 ^a | 5.4 ^b | 16.2 ^b | 29.5 ^a | 13.2 ^a |
| S7C15 | — | 63.8 ^b | 30.2 ^c | 9.7 ^{ab} | 9.8 ^{bc} | 18.2 ^a | 4.1 ^c | 13.7 ^b | 25.3 ^{ab} | 11.7 ^a |
| Sycamore | — | 99.7 ^a | 63.2 ^a | 7.0 ^b | 28.0 ^a | 17.4 ^a | 6.7 ^a | 15.5 ^b | 22.7 ^b | 10.2 ^a |
| Sweetgum | — | 29.6 ^c | 29.3 ^c | 3.8 ^c | 12.5 ^b | 15.4 ^{ab} | 5.4 ^b | 26.1 ^a | 15.4 ^c | 7.2 ^{ab} |
| Loblolly Pine | — | 30.1 ^c | 1.8 ^d | 2.8 ^c | 7.5 ^c | 8.1 ^b | 3.5 ^c | 10.6 ^c | 8.2 ^d | 3.5 ^b |

- 1 Supplemental Table 13. Mean N_C (kg N ha⁻¹) for component tissues in 2003 dormant season sampling. Treatments consisted of control
 2 (C), irrigation (I), fertilization (F), and irrigation + fertilization (IF). Treatment means within species sharing a common letter, and
 3 means by species across treatments sharing a common letter are not significantly different (Fisher's LSD, $\alpha = 0.05$).

| Species | Treatment | Shoot | | | | | Root | | | |
|-----------------------|-----------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| | | Leaf | Litter | Bark | Wood | Branch | Stump | Coarse | Fine | Fine Turnover |
| Cottonwood (ST66) | C | 49.6 ^c | 30.6 ^c | 14.1 ^b | 12.1 ^b | 10.3 ^c | 6.2 ^b | 20.8 ^c | 18.8 ^c | 22.9 ^b |
| | I | 63.8 ^c | 37.0 ^c | 12.6 ^b | 15.5 ^b | 24.2 ^c | 7.3 ^b | 13.8 ^b | 28.8 ^{bc} | 32.0 ^b |
| | F | 123.5 ^b | 75.1 ^b | 31.9 ^a | 11.8 ^b | 98.0 ^a | 12.6 ^a | 32.5 ^a | 34.5 ^b | 31.6 ^b |
| | IF | 161.7 ^a | 105.7 ^a | 35.1 ^a | 60.3 ^a | 60.3 ^b | 13.3 ^a | 38.2 ^a | 50.8 ^a | 64.9 ^a |
| Cottonwood (S7C15) | C | 75.7 ^b | 51.1 ^b | 7.6 ^c | 7.3 ^b | 17.6 ^b | 3.7 ^c | 12.2 ^b | 16.0 ^c | 19.5 ^b |
| | I | 97.7 ^{ab} | 70.0 ^{ab} | 13.4 ^b | 12.6 ^b | 26.5 ^{ab} | 5.6 ^{bc} | 20.2 ^a | 27.1 ^b | 30.1 ^a |
| | F | 128.0 ^a | 77.6 ^a | 24.9 ^a | 22.0 ^a | 37.2 ^a | 7.0 ^b | 25.3 ^a | 36.9 ^{ab} | 33.8 ^a |
| | IF | 126.7 ^a | 77.4 ^a | 23.9 ^a | 28.6 ^a | 38.4 ^a | 9.7 ^a | 21.4 ^a | 26.9 ^b | 34.3 ^a |
| Sycamore | C | 78.6 ^c | 44.2 ^c | 4.1 ^c | 13.9 ^d | 9.0 ^b | 3.3 ^c | 9.1 ^c | 28.8 ^c | 35.1 ^b |

| | | | | | | | | | | |
|---------------|----|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|--------------------|
| | I | 125.9 ^b | 68.8 ^b | 6.9 ^{bc} | 31.7 ^c | 17.1 ^b | 7.4 ^b | 14.3 ^{bc} | 34.0 ^{bc} | 37.8 ^b |
| | F | 186.7 ^a | 110.7 ^a | 11.4 ^b | 48.3 ^b | 23.3 ^{ab} | 7.1 ^b | 17.7 ^{ab} | 40.1 ^{ab} | 36.6 ^b |
| | IF | 191.9 ^a | 104.2 ^a | 19.5 ^a | 72.0 ^a | 37.6 ^a | 11.6 ^a | 23.2 ^a | 45.6 ^a | 58.2 ^a |
| Sweetgum | C | 37.4 ^b | 18.4 ^a | 4.4 ^a | 16.6 ^c | 21.3 ^b | 7.1 ^b | 24.3 ^c | 24.2 ^{ab} | 29.4 ^{ab} |
| | I | 32.5 ^b | 18.9 ^a | 6.1 ^a | 15.6 ^c | 17.4 ^b | 5.5 ^b | 29.2 ^c | 20.2 ^b | 22.5 ^b |
| | F | 89.1 ^a | 37.2 ^a | 8.4 ^a | 26.1 ^b | 39.7 ^a | 9.9 ^a | 60.3 ^b | 31.6 ^a | 28.9 ^{ab} |
| | IF | 89.3 ^a | 38.9 ^a | 10.0 ^a | 35.3 ^a | 46.0 ^a | 10.8 ^a | 68.0 ^a | 27.0 ^{ab} | 34.5 ^a |
| Loblolly Pine | C | 56.5 ^a | 2.1 ^a | 5.3 ^b | 18.9 ^b | 30.6 ^{ab} | 6.0 ^b | 20.7 ^{bc} | 8.5 ^a | 9.6 ^{ab} |
| | I | 53.6 ^a | 2.8 ^a | 6.7 ^b | 17.6 ^b | 24.9 ^b | 5.5 ^b | 17.9 ^c | 8.6 ^a | 8.7 ^b |
| | F | 68.3 ^a | 2.2 ^a | 17.0 ^a | 23.9 ^b | 44.1 ^a | 7.7 ^{ab} | 30.1 ^a | 12.5 ^a | 16.3 ^a |
| | IF | 79.8 ^a | 3.4 ^a | 12.6 ^a | 33.6 ^a | 33.4 ^{ab} | 9.4 ^a | 24.2 ^b | 14.6 ^a | 19.0 ^a |
| Species Means | | | | | | | | | | |
| ST66 | — | 99.6 ^b | 62.1 ^b | 23.4 ^a | 24.9 ^b | 48.2 ^a | 9.9 ^a | 26.3 ^b | 33.2 ^a | 37.8 ^a |
| S7C15 | — | 107.0 ^b | 69.0 ^b | 17.4 ^b | 17.6 ^c | 29.9 ^{bc} | 6.5 ^c | 19.8 ^d | 26.7 ^b | 29.4 ^b |
| Sycamore | — | 145.8 ^a | 82.0 ^a | 10.5 ^c | 41.5 ^a | 21.8 ^c | 7.4 ^c | 16.1 ^e | 37.1 ^a | 41.9 ^a |
| Sweetgum | — | 62.1 ^c | 28.4 ^c | 7.2 ^d | 23.4 ^b | 31.1 ^b | 8.3 ^b | 45.5 ^a | 25.7 ^b | 28.8 ^b |

| | | | | | | | | | | |
|--------------|---|-------------------|------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|
| LoblollyPine | — | 64.5 ^c | 2.6 ^d | 10.4 ^c | 23.5 ^b | 33.2 ^b | 7.2 ^c | 23.2 ^c | 11.1 ^c | 13.4 ^c |
|--------------|---|-------------------|------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|

4

- 1 Supplemental Table 14. Significance levels for annual N_{UP} , NUE, A_N , MRT, R_E , and FUE across four years of resource amendments.
- 2 P -values lower than $\alpha = 0.05$ are indicated with bold typeface. Factors and interactions with ‘NA’ could not be included in the FUE
- 3 model because the hypothesis involved only F and IF treatments.

| Effect | Annual N_{UP} | NUE | A_N | MRT | R_E | FUE |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Year (Y) | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Species (S) | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | 0.0027 |
| Irrigation(I) | < 0.0001 | 0.0086 | 0.0002 | 0.8929 | 0.3663 | 0.2669 |
| Fertilization (F) | < 0.0001 | 0.6644 | 0.1241 | 0.0340 | 0.2388 | NA |
| Y×S | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 |
| Y×I | 0.0015 | 0.0487 | < 0.0001 | 0.0149 | 0.2971 | 0.0014 |
| Y×F | < 0.0001 | 0.0606 | < 0.0001 | 0.2123 | 0.1831 | NA |
| S×I | 0.0015 | 0.8863 | 0.1396 | 0.0462 | 0.0835 | 0.6447 |
| S×F | < 0.0001 | < 0.0001 | < 0.0001 | 0.3634 | 0.7227 | NA |
| I×F | 0.7425 | 0.6385 | 0.9289 | 0.8708 | 0.6488 | NA |
| Y×S×I | 0.2193 | 0.3726 | < 0.0001 | 0.0854 | 0.1314 | 0.0726 |
| Y×S×F | 0.0029 | < 0.0001 | < 0.0001 | 0.1406 | 0.3446 | NA |

| | | | | | | |
|---------|--------|---------------|--------------------|--------|--------|----|
| Y×I×F | 0.1232 | 0.0245 | 0.0368 | 0.2797 | 0.8118 | NA |
| S×I×F | 0.2366 | 0.0439 | 0.0001 | 0.3923 | 0.8443 | NA |
| Y×S×I×F | 0.5086 | 0.0203 | < 0.0001 | 0.3007 | 0.1247 | NA |

1 Supplemental Table 15. Linear regressions comparing NPP as a function of N_{UP} , NPP as a function of N_C , and N_C as a function of N_{UP}
2 across four years of resource amendments. The intercept (b), slope (m), and coefficient of determination (R^2) are presented for each
3 regression. Slopes represent specific indices: NUE (Mg DM kg N⁻¹), A_N (Mg DM kg N⁻¹ yr⁻¹), and MRT (years). All regressions are
4 significant ($P < 0.0001$). Treatment means within species sharing a common letter, and means by species across treatments sharing a
5 common letter are not significantly different (Fisher's LSD, $\alpha = 0.05$).

| Species | Treatment | NPP vs. N_{UP} | | | NPP vs. N_C | | | N_C vs. N_{UP} | | |
|-----------------------|-----------|------------------|---------------------|-------|---------------|--------------------|-------|--------------------|--------------------|-------|
| | | b | m = NUE | R^2 | b | m = A_N | R^2 | b | m = MRT | R^2 |
| Cottonwood (ST66) | C | 0.45 | 67.0 ^{bc} | 0.974 | 0.72 | 49.4 ^{ab} | 0.973 | -0.005 | 1.33 ^a | 0.970 |
| | I | 0.14 | 85.6 ^a | 0.966 | 1.01 | 54.4 ^a | 0.918 | -0.009 | 1.45 ^a | 0.901 |
| | F | 1.37 | 54.5 ^c | 0.951 | 2.34 | 32.3 ^b | 0.886 | -0.022 | 1.61 ^a | 0.978 |
| | IF | 1.06 | 74.4 ^{ab} | 0.994 | 2.32 | 45.2 ^a | 0.949 | -0.017 | 1.57 ^a | 0.949 |
| Cottonwood (S7C15) | C | 0.22 | 89.7 ^b | 0.972 | 0.64 | 53.6 ^a | 0.930 | -0.002 | 1.55 ^{ab} | 0.892 |
| | I | 0.43 | 88.7 ^b | 0.952 | 1.13 | 53.2 ^a | 0.935 | -0.008 | 1.59 ^{ab} | 0.928 |
| | F | 0.30 | 90.1 ^b | 0.985 | 1.09 | 53.2 ^a | 0.931 | -0.006 | 1.59 ^b | 0.937 |
| | IF | -0.20 | 109.0 ^a | 0.991 | 1.50 | 54.2 ^a | 0.964 | -0.027 | 1.96 ^a | 0.973 |
| Sycamore | C | 0.70 | 114.3 ^{ab} | 0.971 | 0.60 | 81.9 ^a | 0.948 | 0.005 | 1.33 ^a | 0.932 |

| | | | | | | | | | | |
|---------------|----|-------|---------------------|-------|-------|--------------------|-------|--------|--------------------|-------|
| | I | 0.32 | 128.9 ^{ab} | 0.962 | 2.11 | 66.3 ^{ab} | 0.962 | -0.021 | 1.87 ^a | 0.923 |
| | F | 0.14 | 126.6 ^a | 0.963 | 1.59 | 66.1 ^{ab} | 0.944 | -0.014 | 1.83 ^a | 0.936 |
| | IF | 2.12 | 104.0 ^b | 0.898 | 3.82 | 57.9 ^b | 0.913 | -0.018 | 1.71 ^a | 0.889 |
| Sweetgum | C | -0.55 | 172.3 ^a | 0.983 | 0.11 | 121.6 ^a | 0.997 | -0.005 | 1.42 ^a | 0.986 |
| | I | -0.65 | 187.4 ^a | 0.960 | 0.18 | 122.2 ^a | 0.993 | -0.007 | 1.54 ^a | 0.977 |
| | F | -0.81 | 150.8 ^a | 0.963 | 0.94 | 87.0 ^b | 0.991 | -0.017 | 1.70 ^a | 0.932 |
| | IF | -0.87 | 156.5 ^a | 0.928 | 0.91 | 85.5 ^b | 0.996 | -0.021 | 1.83 ^a | 0.934 |
| Loblolly Pine | C | -0.61 | 182.4 ^{ab} | 0.983 | -0.07 | 83.2 ^{ab} | 0.987 | -0.006 | 2.17 ^a | 0.977 |
| | I | -0.42 | 163.8 ^{bc} | 0.979 | 0.08 | 80.9 ^b | 0.987 | -0.006 | 2.02 ^a | 0.991 |
| | F | 0.47 | 150.2 ^c | 0.975 | 0.35 | 83.9 ^{ab} | 0.986 | 0.001 | 1.79 ^b | 0.991 |
| | IF | -0.65 | 197.7 ^a | 0.971 | 0.33 | 92.0 ^a | 0.983 | -0.011 | 2.15 ^a | 0.987 |
| Species Means | | | | | | | | | | |
| ST66 | — | 0.74 | 69.6 ^e | 0.950 | 1.66 | 42.9 ^b | 0.907 | -0.015 | 1.55 ^c | 0.963 |
| S7C15 | — | 0.11 | 96.5 ^d | 0.968 | 0.99 | 54.5 ^b | 0.947 | -0.011 | 1.70 ^b | 0.939 |
| Sycamore | — | 1.01 | 115.1 ^c | 0.940 | 2.21 | 64.0 ^b | 0.938 | -0.012 | 1.72 ^b | 0.917 |
| Sweetgum | — | -0.20 | 154.5 ^b | 0.942 | 1.29 | 89.2 ^a | 0.964 | -0.015 | 1.70 ^{bc} | 0.942 |

| | | | | | | | | | | |
|---------------|---|-------|--------------------|-------|------|-------------------|-------|--------|-------------------|-------|
| Loblolly Pine | — | -0.26 | 173.0 ^a | 0.958 | 0.04 | 87.1 ^a | 0.980 | -0.003 | 1.99 ^a | 0.979 |
|---------------|---|-------|--------------------|-------|------|-------------------|-------|--------|-------------------|-------|
