Table S2. Growth parameters, N uptake efficiency (UN) and yield specific N efficiency (EN,y) for two *Salix* genotypes (initial plant biomass in parentheses) grown in two different fertilizer (F+, F-) and culture (mono, mix) treatments in Sweden. Values represent means ± SE (n= 4-8).

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| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Genotype (intital  mplant, g) | Treat-  ment | Leaf  biomass  (g) | Shoot biomass (g) | Root biomass  (g) | Root : shoot ratio  (g g-1) | AGB  (g) | Total Biomass  (g) | LMR (g g-1) | RMF (g g-1) | Leaf area  (cm2) | RGR (g g-1wk-1) | | Loden | F+mono | 0.92 ± 0.10 | 0.59 ± 0.09 | 0.83 ± 0.18 | 1.71 ± 0.19 | 1.51 ± 0.19 | 2.22 ± 0.49 | 0.65 ± 0.03 | 0.37 ± 0.03 | 114.1 ± 14.3 | 0.30 ± 0.018 | | (0.05) | F-mono | 0.36 ± 0.03 | 0.15 ± 0.02 | 0.48 ± 0.05 | 3.79 ± 1.11 | 0.52 ± 0.05 | 1.00 ± 0.10 | 0.71 ± 0.03 | 0.47 ± 0.05 | 44.4 ± 4.3 | 0.24 ± 0.004 | |  | F+mix | 0.66 ± 0.07 | 0.38 ± 0.08 | 0.83 ± 0.20 | 1.81 ± 0.15 | 1.08 ± 0.11 | 2.03 ± 0.29 | 0.63 ± 0.07 | 0.38 ± 0.04 | 81.0 ± 8.8 | 0.30 ± 0.007 | |  | F-mix | 0.31 ± 0.03 | 0.13 ± 0.01 | 0.38 ± 0.03 | 2.90 ± 0.35 | 0.45 ± 0.04 | 0.86 ± 0.09 | 0.67 ± 0.02 | 0.46 ± 0.04 | 39.1 ± 3.9 | 0.23 ± 0.001 | | Tora | F+mono | 0.91 ± 0.04 | 0.85 ± 0.05 | 0.87 ± 0.07 | 1.09 ± 0.11 | 1.76 ± 0.09 | 2.64 ± 0.10 | 0.53 ± 0.02 | 0.33 ± 0.02 | 112.1 ± 5.6 | 0.26 ± 0.003 | | (0.09) | F-mono | 0.31 ± 0.01 | 0.21 ± 0.01 | 0.48 ± 0.01 | 2.39 ± 0.13 | 0.52 ± 0.01 | 1 .00± 0.01 | 0.59 ± 0.02 | 0.47 ± 0.01 | 38.5 ± 1.5 | 0.18 ± 0.001 | |  | F+mix | 0.83 ± 0.10 | 0.76 ± 0.10 | 0.76 ± 0.05 | 1.13 ± 0.11 | 1.59 ± 0.19 | 2.33 ± 0.23 | 0.53 ± 0.04 | 0.34 ± 0.02 | 109.0 ± 12.6 | 0.25 ± 0.009 | |  | F-mix | 0.40± 0.04 | 0.21 ± 0.02 | 0.47 ± 0.04 | 3.01 ± 0.38 | 0.60 ± 0.05 | 1.04 ± 0.11 | 0.66 ± 0.03 | 0.47 ± 0.02 | 41.3 ± 3.8 | 0.18 ± 0.011 | |  |  |  |  |  |  |  |  |  |  |  |  | | Genotype | Treat-  ment | LAR (m2 kg-1) | LAP (g m-2 wk-1) | SLA (m2 kg-1) | SRL  (m g-1) | SRA (cm2 g-1) | Total  Plant N (mg) | LN/LA (mmol N m-2) | LNP (g [mol N] -1 wk-1) | EN,y (g g-1) | UN (g g-1) | | Loden | F+mono | 7.83 ± 0.15 | 17.9 ± 0.5 | 13.03 ± 0.98 | 80.6 ± 14.2 | 186.9 ± 11.7 | 23.75 ± 2.92 | 116.0± 6.4 | 166.5 ± 11.2 | 423.4 ± 87.3 | 3.27 ± 0.30 | |  | F-mono | 8.85 ± 0.32 | 12.3 ± 0.5 | 12.58 ± 0.47 | 81.8 ± 7.3 | 224.7 ± 23.0 | 5.76 ± 0.93 | 65.6 ± 5.5 | 163.5 ± 7.8 | 261.6 ± 35.5 | 1.58 ± 0.15 | |  | F+mix | 8.08 ± 0.35 | 16.2 ± 1.2 | 12.84 ± 1.30 | 90.8 ± 22.4 | 234.8 ± 48.4 | 14.77 ± 2.53 | 132.6 ± 21.8 | 175.0 ± 7.3 | 439.5 ± 92.3 | 2.90± 0.18 | |  | F-mix | 9.22 ± 0.64 | 11.1 ± 0.9 | 13.13 ± 1.18 | 110.8 ± 10.6 | 225.1 ± 11.9 | 5.04 ± 0.67 | 107.4 ± 14.0 | 145.2 ± 7.5 | 301.7 ± 11.2 | 1.44 ± 0.10 | | Tora | F+mono | 6.44 ± 0.12 | 14.5 ± 0.4 | 12.51 ± 0.37 | 111.0 ± 13.3 | 262.8 ± 29.6 | 23.06 ± 2.52 | 114.5 ± 4.8 | 133.7 ± 4.5 | 669.3 ± 51.2 | 5.23 ± 0.25 | |  | F-mono | 7.46 ± 0.23 | 8.0 ± 0.2 | 12.53 ± 0.36 | 104.6 ± 7.7 | 248.8 ± 15.2 | 5.86 ± 0.61 | 78.4 ± 5.2 | 90.1 ± 2.8 | 436.4 ± 37.2 | 2.02 ± 0.06 | |  | F+mix | 7.12 ± 0.40 | 13.1 ± 1.1 | 15.00 ± 2.03 | 86.1 ± 12.8 | 222.9 ± 21.5 | 21.61 ± 2.84 | 83.7 ± 11.7 | 123.1 ± 6.2 | 639.6 ± 71.7 | 4.77 ± 0.43 | |  | F-mix | 7.44 ± 0.43 | 10.7 ± 1.5 | 12.32 ± 0.97 | 100.4 ± 16.8 | 242.2 ± 17.9 | 7.43 ± 0.71 | 70.0 ± 12.5 | 103.2 ± 10.5 | 335.4 ± 25.9 | 2.16 ± 0.15 | |