

Supplementary table 1 Average % BNF of roots and standard error (n=4).

	Average % BNF	SE
Summit	-7.3	4.4
Backslope	-1.6	5.0
Toeslope	2.7	8.1

Supplementary table 2 Average % BNF of vegetative biomass and standard error (n=4).

	Average %BNF	SE
Summit	53.1	6.8
Backslope	43.9	3.6
Toeslope	51.1	7.6

Supplementary table 3: Soil chemistry results of experiment 1, 2, and 3. Elements expressed in mg per kg of soil.

	Toeslope	Backslope	Summit	Conventional Tillage	No-Till
Clay (%)	11.7	-	10.7	18.6	16.9
Silt (%)	33.6	-	20.6	33.2	41.2
Sand (%)	54.7	-	68.8	48.2	41.9
pH	6.5	6.2	6.6	6.4	6.1
Organic matter (%)	1.4	0.9	1.0	1.2	1.4
Aluminum	18.3	14.8	20.2	19.5	18.3
Boron	0.1	0.0	0.1	0.0	0.0
Calcium	788.9	560.5	793.5	800.9	712.2
Copper	0.6	0.2	0.9	0.4	0.1
Iron	2.0	2.0	2.3	1.5	1.4
Potassium	82.3	51.4	66.5	84.6	86.1
Magnesium	119.6	99.4	121.5	170.2	158.6
Manganese	28.5	23.1	15.2	12.3	11.6
Sodium	20.1	15.7	22.4	20.5	22.2
Phosphorus	4.2	2.0	3.0	2.1	1.4
Sulfur	5.1	3.7	4.1	3.6	3.7
Zinc	1.0	0.3	1.0	0.6	0.8