

Root production study
temp + VWC taken to 11 cm

monthly soil moisture/temperature and clipped harvest weight

start 10/4

15 Apr 19

2 Apr 19

Apr 29 BRU

Block	Plot	Loc	Treatment	clip wgt (g)	soil temp (°C)	soil VWC (%)	clip wgt (g)	soil temp (°C)	soil VWC (%)	clip wgt (g)	soil temp (°C)	soil VWC (%)
1	1	A	cut+manure		18.2	11.7	3.0163	18.5	9.2		23.2	6.2
1	1	B	control		18.3	10.9	—	17.8	10.7		23.2	5.4
1	1	C	cut		18.5	9.9	2.9847	18.7	9.5		24.1	5.7
1	2	A	control		18.6	11.7	—	18.7	10.4		23.8	5.4
1	2	B	cut		18.6	9.1	7.2613	19.0	8.2		23.8	5.0
1	2	C	cut+manure		18.7	9.9	5.7462	19.3	8.9		24.1	4.8
1	3	A	cut		18.8	8.5	2.0839	19.1	7.6		24.1	3.8
1	3	B	cut+manure		18.8	8.5	2.0420	19.7	7.7		24.2	4.6
1	3	C	control		18.7	10.7	—	19.4	9.3		23.7	5.3
2	4	A	cut		19.0	12.0	1.6906	19.1	9.5		23.8	5.5
2	4	B	control		18.8	11.3	—	19.5	10.1		23.7	4.9
2	4	C	cut+manure		18.7	12.3	2.2631	19.3	11.1		23.6	6.8
2	5	A	cut+manure		18.5	6.2	0.5505	18.2	9.3		23.2	2.8
2	5	B	cut		18.5	11.0	0.8958	18.3	9.5		23.2	4.8
2	5	C	control		18.7	8.9	—	18.2	8.4		22.8	4.1
2	6	A	cut		18.7	9.9	0.9080	18.2	8.5		23.2	4.1
2	6	B	cut+manure		18.7	9.7	0.9021	18.4	7.1		23.2	4.2
2	6	C	control		18.7	10.3	—	18.6	8.9		22.3	5.1
3	7	A	cut		19.0	8.3	1.7462	18.7	9.1		23.8	5.6
3	7	B	cut+manure		19.0	10.6	7.1937	18.3	7.9		23.2	4.7
3	7	C	control		19.0	9.1	—	18.5	8.1		23.2	4.1
3	8	A	cut+manure		18.5	9.9	0.4519	17.7	9.2		23.0	4.1
3	8	B	control		18.6	9.5	—	17.9	6.6		23.2	4.4
3	8	C	cut		18.7	12.8	1.3974	18.8	10.3		23.7	4.8
3	9	A	cut+manure		18.7	12.9	0.9344	18.7	8.8		23.3	4.2
3	9	B	cut		18.7	11.2	7.9600	18.5	8.9		23.6	3.9
3	9	C	control		18.7	11.6	—	18.5	9.1		23.1	5.3
4	10	A	cut+manure		18.8	15.8	1.1940	18.6	11.0		24.2	6.7
4	10	B	control		18.7	15.1	—	17.7	10.5		22.7	4.9
4	10	C	cut		18.7	11.4	3.4661	18.1	9.1		23.5	4.3
4	11	A	cut+manure		18.5	19.5	0.2840	17.7	12.8		23.3	6.9
4	11	B	control		18.5	21.8	—	17.2	13.4		22.5	5.2
4	11	C	cut		18.8	18.3	1.0880	18.4	12.2		23.3	7.3
4	12	A	control		18.9	16.7	—	17.8	11.8		22.2	4.8
4	12	B	cut+manure		18.8	15.8	2.6754	18.0	10.1		23.0	4.5
4	12	C	cut	endtime 11:07	18.8	16.5	3.3682	18.0	10.5		23.4	5.0
5	13	A	cut	endtime 11:35	18.7	9.1	0.2039	16.7	8.8	5/1 30	21.2	4.1
5	13	B	cut+manure		18.8	9.7	0.9015	16.8	8.9		21.0	4.1
5	13	C	control		18.8	9.4	—	16.7	10.1		21.1	5.8
5	14	A	control		18.5	6.7	—	16.5	6.7		20.8	3.2
5	14	B	cut+manure		18.5	10.2	0.6500	16.8	7.9		21.5	3.6
5	14	C	cut		18.5	8.3	1.6896	17.0	7.8		21.2	3.5
5	15	A	control		18.6	6.1	—	16.6	5.6		20.6	3.6
5	15	B	cut		18.6	7.0	1.1866	16.7	6.4		21.2	3.9
5	15	C	cut+manure		18.6	7.2	0.8345	17.3	6.4		21.2	3.5

cut 3/15/19 SAS

cut SAS 5/1/19

cut 4/5/19 SAS

cut SAS 5/1/19

