



**Biomass for Bioenergy**

**Bioenergy Crop Trial**

**Muswellbrook MACH Energy Australia**

The **Muswellbrook** crop trial consists of 8 replicates with 8 species per replicate, planted across 3 ha of reddish brown fine sandy loam soil. There are 100 trees per plot. It was planted in September 2020. The 2020 monthly rainfall for this area preceding planting was sporadic with some months above and some below average, but the annual rainfall was well above average to September and this provided great conditions for planting.



Species	Common name	Code
<i>Eucalyptus camaldulensis</i>	River red gum	2
<i>Eucalyptus castrensis</i>	Singleton mallee	3
<i>Eucalyptus cladocalyx</i>	Sugar gum	4
<i>Eucalyptus infera</i>	Durikai mallee	7
<i>Eucalyptus polybractea</i>	Blue-leaved mallee	9
<i>Eucalyptus pumila</i>	Pokolbin mallee	10
<i>Eucalyptus viridis</i>	Green mallee	12
<i>Acacia dealbata</i>	Silver wattle	5

Plot layout



*E. pumila*



*E. cladocalyx*



*E. viridis*

Timeline of events	2020								2021				2022		2023		
NB: will be updated as required	Jan	//	Mar	//	Jul	//	Sep	//	Nov	//	Mar	//	Sep	//	Sep	//	Sep
Ripping	█																
Non chemical weed control			█						█								
Chemical weed control					█												
Planting							█										
Irrigation							█										
6 months - measurements											█						
12 months - measurements												█					
24 months - measurements													█				
36 months - harvest crops																	█