

Herbicide Resistance in African Lovegrass



Serrated Tussock Herbicide Resistance

- 2 seasons of testing 2017-18
- 59 total samples tested
 - 54 from Monaro
 - 5 from Southern Tablelands

Resistant	Developing Resistance	Susceptible
28	15	16



ALG Flupropanate Resistance Testing

- 2020 – LLS funded pilot testing

Resistant	Developing Resistance	Susceptible
5	3	4



Images: Plant
Science
Consulting

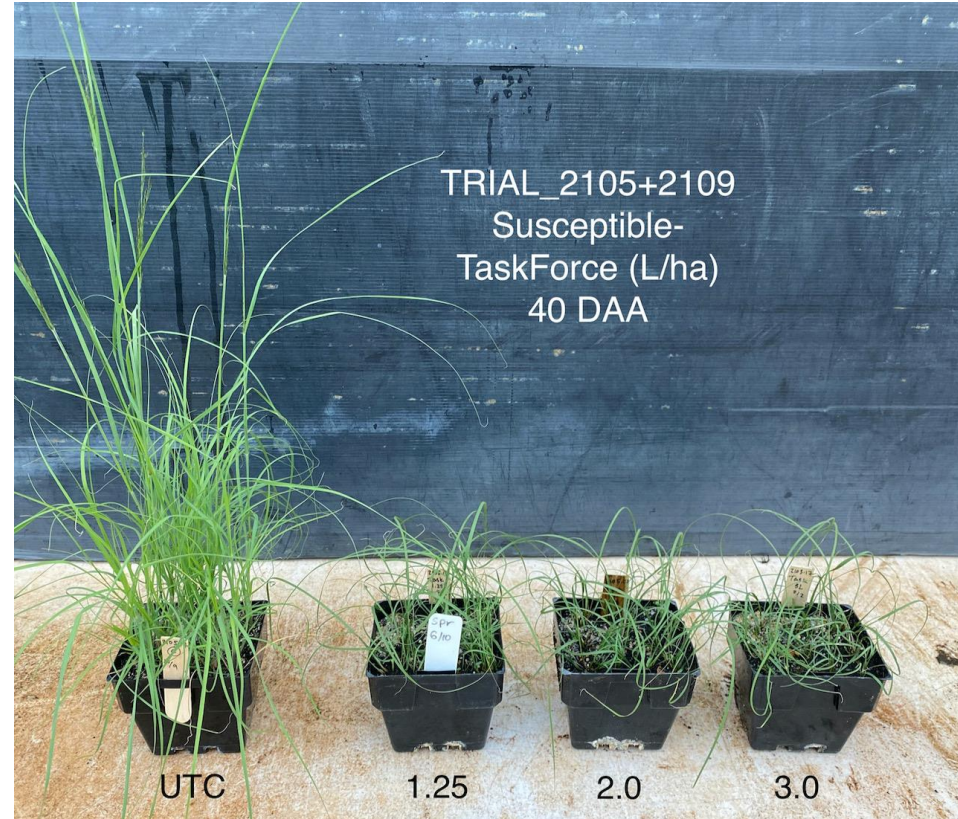
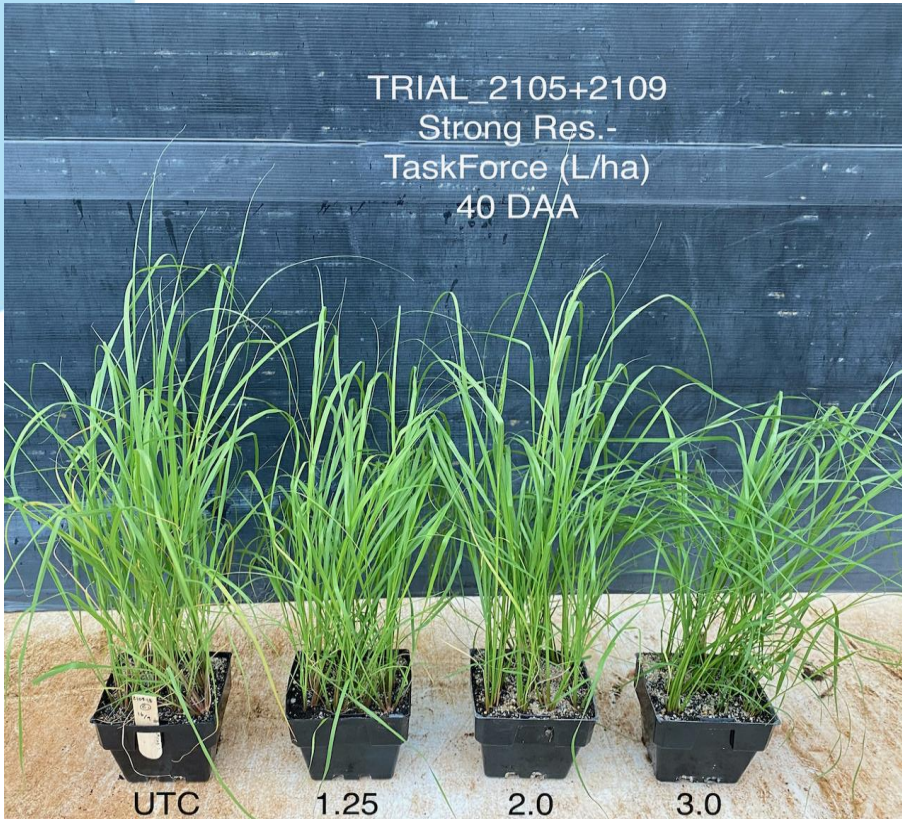
ALG Flupropanate Resistance Testing

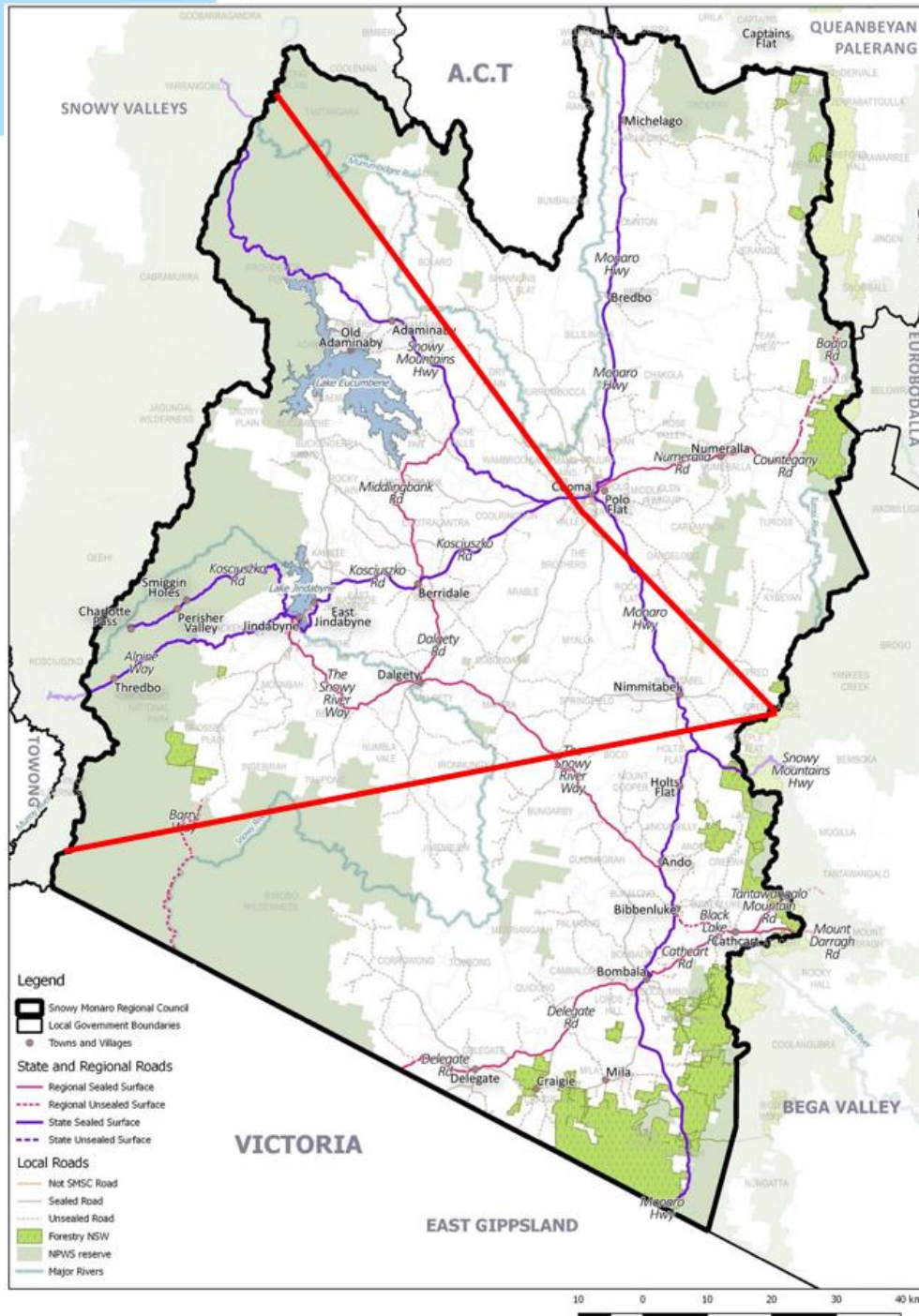
- 2021 – LLS and MFS (Boco Rock Community Fund) funded testing
- 37 samples
- Still waiting on several results (slow development)

	Resistant	Developing Resistance	Susceptible
1.25L/ha	23	2	2
2L/ha	6	18	2
3L/ha	7	12	7

Strong Resistance

No Resistance





North East Zone
9/13 samples

- 2 strongly resistant
- 3 developing resistance
- 4 susceptible

Southern Zone
3/7 samples

- 2 strongly resistant
- 1 developing resistance
- ? susceptible

Central & West Zone
14/17 samples

- 3 strongly resistant
- 8 developing resistance
- 3 susceptible

**2021
Results
@3L/ha**

Warning on low rate application

- Low rates often used to minimise off target damage
- 3 sites where 1.25L/ha would have been effective
 - 36 sites not!
- 4 sites where 2L/ha would have been effective
 - 33 sites not!

% Survival of African lovegrass plants treated with flupropanate

	1.25 L/ha	2 L/ha	3 L/ha
North East 2021	95	25	0
Central West 2021	95	50	0
South 2021	75	40	5

Where to from here?

- NSW DPI has commenced herbicide trials
- Flupropanate shortage
- University of Sydney studies (Jed Brown)



Acknowledgements



Local Land
Services



Boco Rock Wind Farm

Delivering energy. Powering communities.



PLANT SCIENCE
CONSULTING
by Dr. Peter Boutsalis