



a 'Round The Traps'

Making CO2 Work



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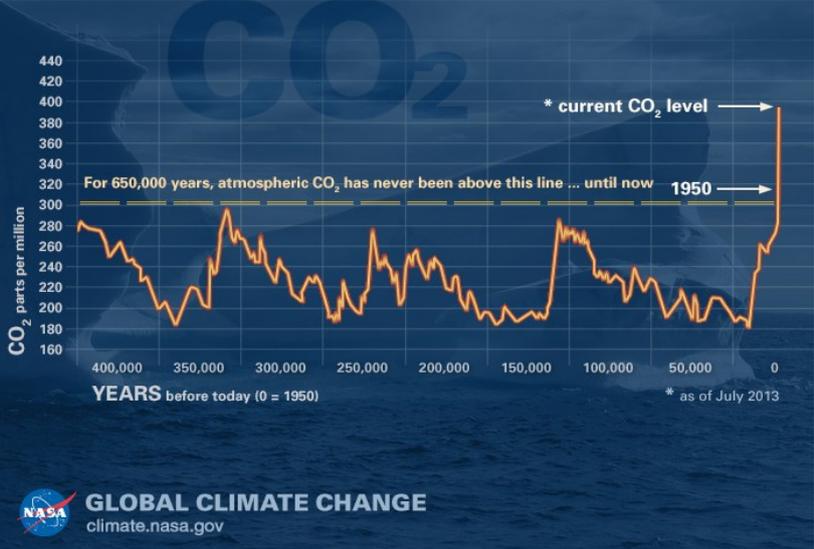
SO WHERE TO NOW IN 2018?

The Ferti-Tech CSA Program had quite a good year last year. Yields were their highest in many areas that enjoyed a soft-finish. Yields were going to be fairly good anyhow given the increased robustness we have in the growing programs. We've certainly been 'banging-on' about how well CSA is improving farms as the farming conditions get more and more unpredictable. There is a climatic reason for that; CSA makes CO2 work positively on farm. CO2 levels in the atmosphere have permanently passed the 400ppm mark and rising. (See the NASA Chart below) **No going back below 400ppm for many, many years.**

What does it all mean for Agriculture in Australia? The same as it did for the last 100 years; seasons change all the time getting hotter, colder, wetter and drier bringing plenty of change, adaption, adversity and opportunity.

CSA + CO2 + WUE = PROFIT!

Whether we are currently driving climate change anthropomorphically (man-made) or not the fact remains the climate changes anyhow. Plants love CO2 – but you have to manage the downsides to that as well. Look at the Tropics; soils and plants can thrive in warmer and wilder climates just as well as anywhere if there is a high Water Use Efficiency embedded in them. It doesn't matter whether your neighbour follows your lead or not. Some people are smart about soils and others just can't be helped. Carbon Systems Agronomy has been keeping crops alive and greener in drought – and alive and greener in flood and frost as well. It's a fact we consistently replicate. CROP ROBUSTNESS IS BUILDABLE!



MOST SOIL TESTS HIGHLIGHTING SERIOUS TRACE ELEMENT CONCERNS

You know Trace Elements are important; and you know you can see evidence of that in poor looking leaves with yellowing, veining, stunted shapes etc. What doesn't seem to be appreciated across all the states is JUST HOW BAD THE SITUATION IS. So many soil tests; especially on new projects, problem paddocks or never-tested paddocks; are coming back critically deficient in Traces – Zinc, Copper, Manganese especially, with regional patches of deficient Iron or Boron being very soil-type specific. I am not talking 'lock-up' either. When we do Total Acid Extractables on higher Alkaline soils we are not seeing the reserve of Traces embedded in the profile either. THE TRACES ARE JUST NOT THERE! So the only way forward it to put them there. You get way more yield, robustness and crop health with good Traces! Research the facts; Good Trace Levels can take Wheat from 3 to 4 to 5 wide. Think about it!

Cations			Deficit	
			Desired	Found
Cations	Magnesium	Desired	164	388
		Found	94	210
		Deficit		158
	Potassium	Desired	167	375
		Found	70	156
		Deficit		219
Sodium	Desired	54	121	
	Found	17	38	
	Deficit		82	
Elements	Zinc	mg/kg	4.3	0.5
	Manganese	mg/kg	40	1.3
	Iron	mg/kg	50 - 400	66
	Copper	mg/kg	1.74	0.48
	Boron	mg/kg	1.50	0.50

