

She's calculating tonnes of carbon sequestered this season using Agrisilica®.

With 100% natural plant-available silicon fertilisers such as Agrisilica®, it's a win-win for farmers, consumers and the planet.

1. Reduce carbon footprint (see table below left), increase carbon sequestration and boost soil carbon
2. Reduce GHG emissions
3. Increase yields by up to 120%.
4. Increase profitability by up to 40%
5. Reduce water usage by increasing Water-Use Efficiency (WUE)
6. Increase Nutrient-Use Efficiency (NUE)
7. Directly and indirectly, support 11 of the UNs SDGs
8. Co-blend with NPK, MAP, DAP, etc and benefit from a powerful market disruptor.

Carbon Footprint Calculations	NPK Without Agrisilica®	NPK With Agrisilica®
Total Fertiliser Application Rate Tonnes per Ha	0.14	0.29
Fertiliser CO ₂ e per T Applied	0.364	0.392
Yield per Ha tonnes	5.70	8.50
Carbon Footprint per T of crop produced	0.064	0.046
Carbon Footprint Reduction per T of Wheat Produced %		28

Result: 49% Increased yield and 83% Increased carbon sequestration

Agrisilica® repositions productivity and profitability

Yield Increases - Crop Quality Increases - Significant Returns on Investment

Crop	Country	Yield Increase % with Agri silica®	Grower profit AU\$/ ha	Grower profit AU\$/ha	Additional profit increase	Number times cost of Agrisilica® recovered (ROI)
			NO Agrisilica®	WITH Agrisilica®	AU\$/ha with Agrisilica®	
Apple	Morocco	50	22,200	37,400	15,200	28.1
Avocado	Australia	27	74,700	95,570	20,870	50.7
Banana (greenhouse)	Morocco	26	35,400	44,000	8,600	16.4
Barley	Australia	92	364	735	371	4.5
Blueberry	Morocco	6	75,500	79,600	4,100	15.6
Cherry	Australia	20	87,500	104,800	17,300	99.9
Chilli	Australia	59	100,000	158,730	58,730	210.8
Citrus (Mandarin)	Spain	23	26,000	29,800	3,800	22.7
Coffee	India	34	2,300	3,100	800	6.7
Cotton	India	21	1,640	1,930	290	5.1
Cucumber	Australia	34	92,400	123,800	31,400	113.1
Date Palm	Saudi Arabia	8	42,300	47,360	5,060	25.1
Grape (Wine)	Spain	30	14,000	18,000	4,000	20
Grape (Table)	Brazil	27	28,500	36,500	8,000	65
Hazelnut	Turkey	70	30,000	64,000	34,000	82
Macadamia	Australia	30	16,740	22,130	5,390	26.7
Maize	Zimbabwe	21	2150	2600	450	3.2
Melon	Brazil	34	31,700	42,500	10,800	39.6
Olive	Spain	19	4,000	4,880	880	9.4
Onion	Australia	63	16,200	18,400	2,200	13.6
Pear	Spain	68	9,500	15,750	6,250	32.9
Pomegranate	India	31	12,500	16,060	3,560	18
Potato	Zimbabwe	17	24,800	29,100	4,300	17.5
Raspberry	Morocco	23	70,000	86,000	16,000	77.2
Rice	Turkey	26	6,500	8,000	1,500	8.1
Rice	India	28	1900	2400	500	4.8
Soybean	India	17	1,500	1,800	300	5.3
Strawberry	Australia	21	174,000	209,000	35,000	67.7
Sugar Beet	Morocco	62	2,800	5,000	2,200	11.5
Sugarcane	Brazil	85	3,500	6,500	3,000	17.1
Sugar cane	Australia	11	3,200	4,200	1,000	5.1
Tea	India	16	8,900	10,200	1,300	7.2
Tomato (Field)	Spain	29	19,200	23,400	4,200	40
Tomato (greenhouse)	Morocco	12	62,900	70,400	7,500	11.9
Wheat	Zimbabwe	19	3,400	4,050	650	18.6
Wheat	Morocco	49	1,300	1,700	400	4.8



Agrisilica® Highlights

- » Farmer return on investment (ROI) exceeds 20 times the outlay.
- » Crop yield increases up to 120%.
- » Farmer profitability increases by up to 40%
- » Reduced crop losses from drought, frost, pests, pathogens, etc.
- » Proven increases to carbon sequestration by up to 83%.
- » Reduces greenhouse gas (GHG) emissions, including Nitrous Oxide (N2O) by up to 40% via Nutrient-Use Efficiency (NUE)
- » Reduces uptake by crop of Heavy Metals for example, Cadmium and Arsenic uptake reduced by up to 40%
- » Increases Water-Use Efficiency (WUE) by up to 150%
- » Agrisilica® delivers outcomes to 11 of the UN SDGs (Sustainable Development Goals)
- » Agrisilica® has an extremely low carbon footprint of just 0.18 T CO2e
- » Registered for use in organic agriculture

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