P14	All rows have banded sub-surface applied compost	.7	ת	4, r.	ω	Ņ	.1	The Am	TRIAL Joe's pa before. trial in <i>I</i>	São Mai which is streaml and cur	In 2013, researc week to manufa system	Joe has region a	The Mu traffic s tillage a	BACK(Joe anc sugarca	Amu	Са
	1 eye sets OR tissue culture	The one	of a legume	The skipp The proc	Tissue cu	A prescri	The trash	iuza syster	TRIAL OVERVIEW Joe's passion lies in pu before. Working with trial in Australia on his	rtinho is or s strategic: ine produ rently har	In 2013, Joe received research into best pra week tour of six count manufacturing. It was system called Amuza.	been exp and founde	scat's farm ystem by u nd also su	BACKGROUND Joe and Christine sugarcane with rc	Amuza Trial	se
อเมทชีอา		The one eye sets or tissue culture cane is harvested and planted across the paddock	me.	The skipped four or six rows are planted with peanuts, soybeans or sun hemp, depending on soil carbon. The process then repeats itself with two rows of tissue culture or single eye sets followed by four to six r	Tissue culture or single eye sugarcane sets are planted in two rows with four or six rows skipped	A prescription blend compost is applied, based on the needs of the soil	n is incorpo	The Amuza system requires the trial site to undergo preparation for planting once harvesting is completed. 1. The trash is incorporated back into the soil followed by	TRIAL OVERVIEW Joe's passion lies in production systems and the Amuza planting system is something that has never been trialled in Australia Joe's passion lies in production systems and the Amuza planting system is something that has never been trialled in Australia before. Working with Reef Catchments under their Sustainable Agriculture program, Joe plans on establishing the first Amuza trial in Australia on his Oakenden farm.	São Martinho is one of the largest producers of sugar and ethanol in Brazil. The company owns and leases the farming land, which is strategically located within an average of 24 kms from its mills. Ownership allows them to ensure quality control and streamline production processes. These rain-fed farms utilise 3m harvesting widths. They have been farmed for over 100 years and currently harvest an average of 50,000 tonnes of sugarcane a year.	In 2013, Joe received the Nuffield Scholarship supported by the Sugar Research and Development Corporation to support his research into best practice in production, manufacturing and marketing of fibre crops. The scholarship allowed Joe to take a six week tour of six countries to see numerous examples of how fibre crops are transformed into new products through secondary manufacturing. It was during his stay in Brazil, visiting the São Martinho's sugar growing region that Joe came across a farming system called Amuza.	Joe has been experimenting with rotational crops for more than fifteen years and in this time has brought new crops to the region and founded markets for legume, fibre, seed and oil crops cosmetics).	The Muscat's farm was fully converted to 1.8m rows with controlled traffic in 2008. They get the most out of the controlled traffic system by using RTK GPS guidance. Reef Rescue Water Quality Improvement Grants have helped fund a change to zonal tillage and also supported EC mapping for soil and nutrient management.	BACKGROUND Joe and Christine Muscat have a long history of bringing innovation to the Mackay Whitsunday region. The couple grow sugarcane with rotational fibre crops on 130 Ha in the Oakenden area within the Sandy Creek catchment. South-West of Mackay.		Case Study 4: Joe Muscat, Oakenden
	The one eye sets or tissue culture cane is har		r six rows ; popals ilse	ngle eye si	The trash is incorporated back into the soil followed by											
	lture cane		are plante olf with tw	ugarcane		t is appliec	: Joe									
	he soil ! is harves!		The skipped four or six rows are planted with peanuts, soybeans or sun hemp, depending on soil carbon. The process then repeats itself with two rows of tissue culture or single eye sets followed by four to six rows	sets are p		l, based or	Mus									
	1 eye sets OR tissue culture	ted and pl		anuts, soyl Hissue cult	lanted in t	n the neec	/ed by	aration for	lanting sy inable Agr	ethanol ir from its n tilise 3m h ;arcane a y	by the Sug and marke now fibre o São Mart	re than fif vil crops cc	controlled /ater Quali nt manage	nnovation ænden are		cat, O
	อนุทริอา	anted acro		beans or s hure or sin	wo rows v	ds of the s		r planting	stem is so iculture p	ר Brazil. Tl nills. Own arvesting year.	gar Resear eting of fib crops are t iinho's sug	teen years osmetics).	traffic in 2 ty Improvi ment.	to the Ma ea within t		aken
	อพทชิอา	iss the pac		un hemp, ale eve sel	rith four or	<u>oi</u> .		once harve	mething th ogram, Jo	ne compar ership allo widths. Th	ch and De re crops. ransforme ar growing	and in thi	2008. They ement Gra	ckay Whits ne Sandy (den
	อเมทชีอา	ldock.		depending s follower	r six rows :			esting is co	nat has ne ve plans or	ny owns ar ws them t ey have b	velopmen The schola ed into nev g region th	s time has	y get the n Ints have H	sunday reg Creek catc		
	อเนทชิอา			g on soil ca H by four h	skipped.			ompleted.	ver been l n establish	nd leases o ensure een farme	t Corporal arship allo w product at Joe cau	brought r	nost out o nelped fun	gion. The c hment, Sc		
1 eye sets OR tissue culture				arbon. o six rows					trialled in , ning the fi	the farmir quality cou ed for over	tion to sup wed Joe t s through me across	new crops	of the cont nd a chang	couple grc outh-West		
									Australia rst Amuza	ıg land, htrol and - 100 years	pport his secondary a farming	; to the	rolled ;e to zonal	w c of Mackay.	ł	
Whitsunday region.	industry and Reef Catchments and Joe will continue to work together to further research and develop this trial in the coming year. This trial is still in the planning phase. Joe is working with independent agronomists Farmacist to investigate sourcing the many components and how this system would work in the Mackav	FOIDS This trial presents some exciting potential outcomes for the local sugar										Lanucare ri ogi ann.	Catchments Systainable Agriculture Program, through funding from the Australian Government's National	on establishing the first Amuza trial in Australia on his Oakenden farm. This trial is summerical by Reef	Joe Muscat in the São Martinho's	-





