### **References**

- WANTFA Farming Systems (1993-2002). Quarterly magazine by the Western Australian No-Tillage Farmers Association. Edited by W. Crabtree. [see www.wantfa.com.au]
- Advancing the Art of Zero-Tillage (1997). Manual by Manitoba North Dakota Zero-Tillage Farmers Assoiaction. Edited by D Domitruik and W. Crabtree. [see <a href="www.mandak.org">www.mandak.org</a>]
- Min-Till Drill (2000). A special publication by the Kondinin Group. Edited by S Wallwork.
- No-Till Essentials (1998). Flyer on the basics of no-tillage in Western Australia through WANTFA, Dept of Agriculture and the Kondinin Group. Edited by Crabtree et al.
- CBH delivery records (2001).
- National Land and Water Resources Audit (2002). Theme 5.1 Land use change, productivity and diversification. Western Australian Department of Agriculture Miscellaneous Publication 12/2002. Compiled and edited by Dr David Stephens.

### **Appendix**

## Articles written by Scientific Officer during WAN3 Project

#### **Scientific Publications**

- Crabtree, W. L. (2001). Masters Thesis through the University of Western Australia. The effect of water repellence on plant emergence and manganese uptake and growth of lupins in a dry soil.
- Crabtree, W. L. (1999a). Deep placement of Mn fertiliser on sandy soil increased grain yield and reduced split seed in *Lupinus angustifolius*. *Plant and Soil*. 214:9-14.
- Crabtree, W. L. (1999b). Furrows, press wheels and wetting agents improve crop emergence and yield on water repellent soils. *Plant and Soil*. 214:1-8.
- Crabtree, W. L., and Gilkes, R. J. (1999a). Banded wetting agent and compaction improves barley production on a water repellent sand. *Agronomy Journal* 91:463-467.
- Crabtree, W. L. and Gilkes, R. J. (1999b). Improved pasture establishment and production on water repellent sandy soils'. *Agronomy Journal* 91:467-470.
- Crabtree, W. L. Robson, A. D., and Ritchie, G. S. P. (1998). Drying of a surface soil decreased Lupinus angustifolius root length and Mn uptake in a split pot experiment. *Australian Journal of Agricultural Research* 49 (7).

### **Conference papers**

Request by or submitted to	Date of release
WANTFA Conference	8 <sup>th</sup> August 1997
WANTFA Conference	24 <sup>th</sup> February 1998
Getting the crop in SA	27 <sup>th</sup> February 1998
WANTFA Conference	15 <sup>th</sup> February 1999
Crop Updates	17 <sup>th</sup> February 1999
Crop Updates	17 <sup>th</sup> February 1999
SA Eyre Peninsula strategy	9 <sup>th</sup> March 1999
SA Eyre Peninsula strategy	10 <sup>th</sup> March 1999
AAAC	29 <sup>th</sup> March 1999
AIAS at Wongan Hills	31 <sup>st</sup> March 1999
	4 <sup>th</sup> January 2000
	13 <sup>th</sup> January 2000
* *	16 <sup>th</sup> February 2000
* *	16 <sup>th</sup> February 2000
* *	16 <sup>th</sup> February 2000
	8 <sup>th</sup> March 2000
	June 2000
	28 <sup>th</sup> February 2001
	21 <sup>st</sup> February 2001
	21 <sup>st</sup> February 2001
	16 <sup>th</sup> August 2001
	14 <sup>th</sup> February 2002
Crop Updates	20 <sup>th</sup> February 2002
	WANTFA Conference WANTFA Conference Getting the crop in SA WANTFA Conference Crop Updates Crop Updates SA Eyre Peninsula strategy SA Eyre Peninsula strategy AAAC

# Some other submitted articles and papers

<u>Title</u>	Request by or submitted to	
Prepare paddocks next no-till crop	Monsanto	8 <sup>th</sup> July 1997
No-till developments in WA	Paskerville field day, SA	16 <sup>th</sup> September
No-till essentials (joint publication)	Industry (Ag Dept)	September 1998
Challenges and soil changes with NT	JERAC	20 <sup>th</sup> October 1998
Crops to consider after Esperance January rain	WATFA committee	18 <sup>th</sup> January 1999
NSW trifluralin thoughts	CWCFA newsletter	April 1999
No-till brings soil to life	requested by the LMS	21 <sup>st</sup> April 1999
Fallowing – debate for SA-Vic mallee!	SA Crop Science Soc	23 <sup>rd</sup> October 1999
Rotations for Less Tillage	Kondinin "Min-Till Drill"	4 <sup>th</sup> November 1999
Incredible no-till adoption in WA	Kondinin "Min-Till Drill"	3 <sup>rd</sup> December 1999
No-tillage helps to manage weeds	Rural Press	17 <sup>th</sup> December 1999
Notes for new no-tillers	Rural Press	10 <sup>th</sup> December 1999
Are Sheep a part of no-till farming?	AGWEST debate Northam	20 <sup>th</sup> March 2000
Cover Crops and no-till in South America	WANTFA farmer seminar	28 <sup>th</sup> July 2000
Min-Till Drill (write and edit some chapters)	Kondinin Group	29 <sup>th</sup> August 2000
Meckering Field day booklet 2000	WANTFA	17 <sup>th</sup> September 2000
Meckering Field day booklet 2001	WANTFA	18 <sup>th</sup> September 2000
Fertiliser recommendations in no-till agriculture	UWA – GRDC workshop	14 <sup>th</sup> May 2001
Meckering trials results booklet 2000	WANTFA	18 <sup>th</sup> February 2001
Meckering trials results booklet 2001	WANTFA	8 <sup>th</sup> February 2002
Adoption of no-tillage in WA	CLIMA/UWA	26 <sup>th</sup> July 2002
Tramlines offer extra precision for no-tillers	AgDept – WANTFA – Knd	6 <sup>th</sup> August 2002
No-tillage progress and issues in Western Australia	Capetown, South Africa	13 <sup>th</sup> August 2002

# **WANTFA Farming Systems magazine articles (including 1993-1996 articles)**

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July	2002	Snippets	RR canola in seasons like this would be nice	526
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July	2002	Snippets	Ants and ryegrass – again!	525
July	2002	Snippets	Herbicide resistance symposium	524
July	2002	Snippets	Snake chains – for poor B2 seeders	524
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July	2002	Snippets	Field days – Hyden, Lake King, Lake Grace and Ongerup	523
July	2002	Snippets	Press wheel design for dry soils!	523
July	2002	Snippets	Stubble holds fragile soil together!	522
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July	2002	Snippets	The power of furrows in dry starts	521
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# Daily group and radio activity list of WAN3 Scientific Officer

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N (1	Ъ	C	E D	С .	Other	Radio	TD 1
Month	Day	Group	F Day	Seminar	Groups	intrvw	Total
May	8	Fosbery			4		
	9	State				ABC live	
	15	TopCrop			12	Г	
	19	TopCrop			18		34
June	4	Harrismith			70		
	11	Kojonup			16		
	12	Gairdner		20			
	23	North				ABC	
	24	Wongamire			4		110
July	17	Corrigin	12				
	18	Geraldton			55		
	22	Boxwood	60				
	28	State				ABC	
	31	Esperance	63				190
August	4	Wheatbelt				RadioW	
_	8	Muresk Weeds		330			
	11	Broomehill	125				
	12	Bodallin		38			
	13	Corrigin		160			
	14	Wyalkatchem		200		ABC	
	15	Buntine	112				
	16	Ajana	38				
	19	Muresk			73		
	21	Mindarabin			100		
	21	Broome Hill			13		
	22	Narembeen	6				
	22	Wandering			49		1244
September	2	Muresk			60	•	
=	3	Newdegate					
	8	Muresk			15		
	10	Muresk			60		
	12	Muresk			25		
	15	SA - IAMA			15		
	16	South Aust.				ABC	
	16	Paskerville		110			
	17	South Aust.				ABC TV	
	19	Peter King	17				302
October	8	Narrogin KF&P			62		
	10	Kondinin FIG			58		
•							

15	Quairading			53		
17	Narembeen			62		
20	Wongan Hills	62				
21	Quairading			12		
24	Harrismith			54		
27	Dandaragan	8				371
		503	858	890	7 intvws	2251

					Other	Radio	
Month	Day	Group	F Day	Seminar	Groups	intrvw	Total
January	22	Broadway			3	_	
	29	Kelleberin			12		15
February	4	Piawaning	4				
	10	Dimboola			28		
	19	Crop Updates			55		
	24	Muresk		220			
	27	Claire			350		657
March	4	Corrigin			42		
	5	Trayning			20		
	6	Wylekatchem			35		
	9	Northam			22		
	10	Bruce Rock			70		
	11	Muckinbudin			55		
	12	North				ABC	
	13	Beacon			42		
	16	Kelleberin			50		
	17	SLIC Meeting			9		
	18	Miling			8		
	19	Bencubbin			23		
	19	Koorda			53		
	20	Kukerin			38		
	23	Perth			85		
	24	Perth			50		
	26	Mukinbudin		40		-	
	30	Boxwood Hills			40		682
April	2	Mukinbudin			33		
	2	Beacon		30			
	9	Quairading			45	<u>-</u>	
	29	Northam RLF			4		112
May	5	Narrogin			60		60
June	8	North				ABC	
	9	North				ABC	
	11	North				ABC	

		Silomungerup	460	778	2393	10 intv	3631
October	22	Gnowangerup			10		301
October	21	JERAC Seminar			110	ADC IIVC	
October	21	South			143	ABC live	
October	20	Jeramungup Fd	43		125		
October	o 16	Perth, UWA	25		7		
October October	8	Kelleberin	10		9		
October	2 7	Kondinin Grp Brookton	10		3		
October	1	Wongan Hills			9		
September	25	Muresk Wangan Hills			26		587
September	22	State & north			26	4 X ABC	F07
September	22	Avondale			55	AVADO	
September	19	Balaklava			18		
September	18	Cummins			32		
September	17	South Australia			22	ABC	
September	17	Hart			330	150	
September	16	Loxton			92		
September	15	Quairading	14				
September	14	Muresk			20		
August	17	Denver	43				486
August	14	San Diego	5			ı	
August	11	York	_		12		
August	7	Mullewa		92	4.5		
August	6	Miling	65	2.2			
August	5	Hyden	118				
August	4	Borden	101				
August	3	Narrogin	50				
	31	Bremer Bay			95		463
	29	Perth			45	ĺ	
	28	Muresk			80		
	28	Muresk			65		
	3	Gibson		31			
	2	Condingup		75			
	2	Munglinup		40			
July	1	Jerramungup			32		
	31	Jerramungup		35			268
	30	Wellstead		40		ı	
	29	Badgingarra		70			
	23	Yelbeni			85		
	17	Geraldton			13		
	11	Northam	25				

Month	Day	Group	F Day	Seminar	Meeting	Other Groups Ot	ther s	Radio intrvw	Total
January	13	Radio						3 x ABC	
•	15	Radio						747 +	0
								ABC	
February	1	WANTFA			12				
	9	WAHRI					6		
	10	Dongara		180					
	11	Esperance		80					
	12	Esperance		80					
	15	Muresk		350					
	16	Muresk		350					
	17	Crop Updates				280			
	19	SANTFA				270			
	22	Walpeup - CU				,	70		
	22	Birchip					20		
	23	FV 2000 Donald			15				
	24	Parkes	30					ABC	
	26	C Hacking SFS					10		1753
March	3	Nrthmptn				18			
	3	Yuna				35			
	4	Walkaway				28			
	4	Mullewa				45			
	5	Morawa				48			
	5	Perenjori				24			
	6	Study Tour reunion	n		65				
	8	Cleve			18				
	9	Upper Wirrulla				165			
	10	SA Ungarra				260			
	10	Kingsley McD			12			ABC	
	15	ABC – Radio SA						ABC	
	15	Beacon							
	17	IAMA Nungarin				22			
	17	IAMA Merredin				33			
	18	ABC – Radio SA						ABC	
	22	WANTFA			12				
	23	ABC radio						ABC	
	25	Kendenup		32					
	29	AAAC				55			
	30	Quairading FIG				30			
	31	Wongan Hills				70			972
April	8	Wubin				28			· · · ·
P-11	8	Carnamah				29			

I	9	Danaragan				60	35	ABC	
	21	Summit			10				
	22	Pingelly FIG				30			
	22	Meckering R&D			10				202
May	6	UWA – lecture JC	C			20			
	28	Narrogin Ag Colle	ge			45			65
June	8	ABC radio						ABC	
	13	TV landline						ABC	
	21	WANTFA			12				
	22	WANTFA			12				24
July	19	Countryhour						ABC	
	20	Meck R&D meet			10				
	21	ABC – Radio						ABC	
	23	Katanning WS Ser	ninar	125					
	26	Miling WS Semina	ar	125					
	27	ABC – Radio						ABC	260
August	3	York	100						
Č	3	Bruce Rock	60						
	4	Kellaberin	100						
	4	Whylie	30						
	5	Wongan	60						
	5	Calingari	40						
	6	Mullewa	40						
	6	Yuna	70						
	10	ABC – Radio						ABC	
	16	Esp Mallee	52						
	16	Esperance		26					
	17	Esperance	22						
	18	Munglinup	60	40					
	19	Jacup	65						
	19	Wellstead		35					
	20	South Stirlings,	34						
	23	Badgingara		65					
	24	Dowerin					35		
	25	Meckering	45					_	
	30	Muresk		55					1034
September	1	Newdegate FD					33		
	3	Muresk				25			
	7	Southern Brook				19			
	8	AWARE				70			
	9	Liebe Group				60		ABC	
	13	MFIG				20			
	15	Birchip				100			
	21	Avondale				70			
	23	WANTFA			14				

	24	Meck R&D F/D	70						481
October	5	Brookton lcdc				22			
	5	Vic & Iama				45			
	11	Bodallin				60			
	12	Jerac				72			
	13	Jerac (40)					40		
	14	Wellstead barley F	day			60			
		(60)							
	18	Quairading FIG				13			
	18	Meck R&D meeting	g		10				
	20	WANTFA S. Plan			10				
	21	WANTFA S. Plan			12				
	26	ABC radio						ABC	
	28	ABC radio						ABC	
	29	Qrdng trial	5					<u>-</u>	
	30	SARDI - Perth					32		381
November	10	TopCrop - Ascot					28		
	14	WS workshop					35		
	17	TopCrop breakfast					50		
	21	ABC + Sonshine						ABC+Sn	
								sh	
	23	ABC radio						ABC	113
			883	1543	234	2231	394	22	5285

		Criteria ioi 2000				Other		Radio	
Month	Day	Group	F Day	Seminar Me	eting		Others	intrvw	Total
Jan	5	PNW DD conf				580			
	6	PNW DD conf							
	13	USA No-Till Co	nf			800			1380
Feb	1	ABC						ABC	
	8	WS crops	20						
		wheatbelt							
	11	Live ABC						ABC	
	16	CU				300			
	17	CU				300			
	28	Grldtn Anl Conf		135				ľ	
	29	Quairading FD	36						791
Mar	1	Kat An Conf		200					
	2	Kendenup	35						
	2	Wellstead	25						
	2	Munglinup	5						
	3	Esp Annual Con		135					
	7	Muresk An Cont		348					
	8	Muresk An Cont	t	348		10			
	15	Meckering				10			
	16	Mrdn – Minkey Avon CU				4 25			
	22 22	Avon CU Avon CU				23 85			
	23	Freo Pro-Graze				9			
	27	Bodallin			36	,		ſ	1265
Apr	18	Claying field d			31				31
May	5	ABC radio live			<i>J</i> 1			ABC	0
June	10	Int Weeds Conf				60		ПВС	<u> </u>
June	19	ABC – live from	Chilo			00		Ī	60
In1,,	25	Live x2 for ABC						ADC	00
July		Morawa	25					ABC	
	26 26	Morawa Conf	23	42				ABC	
	28	Kelleberrin		72					
	31	Katanning		62				ſ	201
Δυσ	2	Esperance		77					201
Aug	8	Esperance Mullewa	81	1 1					
	9	Miling	12						
	16	Hyden	52						
	18	Meenaar R&D	35						
	22	Lake Mears	20					ABC	
	23	Cadoux bus	22					1100	
i		CHACALL CAD							

	24	AGWEST				5			
	25	South African's	20	20					
	29	Dowerin MinTill	Drill			50			
	31	Dowerin						3xABC	394
Sep	6	Newdegate				40			
	8	South African J					1		
	13	CAT - Muresk				25			
	18	Meckering	350						
	20	Cadoux NT	26						442
		tour							
Oct	4	Dowerin			25			_	
	2	26 Meckering	25						50
		R&D							
Nov	14	Novartis - SA	14						
	15	Muresk hons				3			
	23	French	46					_	
	24	Matt & Doug Ka	nsas		6				69
Dec	4	GRDC review				4			
	5	Monty House			4				
	13	Meet CSBP				6			
	18	Meckering R&D			11				
	19	Esp AGWEST				5			
	20	Gibson clay	4						
	20	2 ABC interview	S					2xABC	
	21	Elders Esp					4		
	21	Munglinup	5					_	
	22	Salmon Gums	6						49
			864	1439	113	2311	5	12	4732

Mont h	Day	Group	F Day	Seminar	Meeting	Other Groups	Radio intrvw	Total
Jan	17	Radio					ABC	
	18	Study tour				13		
	23	Radio					ABC	13
Feb	2	CSBP meeting			25			
	6	WANTFA			13		ABC	
	7	WANTFA			13			
	20	UWA meet R&CC				29		
	21	CROP UPDATE				60		
	23	WANTFA Conf – Esp		100				
	26	WANTFA Conf – Ger		100				

	27	Dowrn WSC field day	32					
	28	WANTFA Conf – Prth		320				692
Mar	1	WANTFA Conference		300				
	8	Muckinbudin				55		
	9	Trayning				15		
	9	Whylie				28		
	27	Kondinin		24				
	27	Hyden		22			_	
	29	Bonnie Rock		36				480
Apr	3	Nyabing		19				
	12	WANTFA committee			13		Γ	32
May	4	GRDC Report						
	14	UWA Meeting - nut				35		
	20	Argentinians visit		18			Γ	53
Jun	5	Ken Wilson					FWeekly	
	13	Pat Harding					Comm	
	18	Owen G					ABC	
	25	Bodallin		7				
	26	Bonnie Rock		5				
	28	Miling		17			_	
	29	Meckering			12			41
July	2	Committee in Perth			13			
	17	Wialki			14			
	17	Mucka				35		
	20	Meckering	16					
	24	Post Seeding	32					
	25	Borden	60				ABC	
	26	Gairdner	11				_	
	27	Corrigin FIG				70		251
Aug	1	Capetown FIG				50		
	3	NT group at Pilansbrg		30				
	17	AAPRESID				150	-	
	30	Dowerin FD				75		305
Sep	5	Owen G					ABC	
	5	Newdegate Mach FD				45		
	10	Badgebup	36					
	12	Lake King		40				
	14	ABC interview					ABC	
	14	Dept of A visit trials	11					
	17	Diamond Sponsors dnr	<b>-</b>	50				
	18	Meckering	550			<u> </u>		
	20	Mingenew MFD				35		
	21	Mingenew MFD				35	г	
	24	Cunderdin Ag College	60					862

Oct	8	Bodalin field day	26					
	10	Grant W					ABC	
	17	Meckering pre-harvest	45					
	26	WANTFA Meeting			13			
	29	Rothamstead staff	6					90
Nov	15	Meckering meeting			8			
	27	Review AJSR paper						8
		Total # of people =	885	1088	124	730	10	2827

						Other	Radio	
Month	Day	Group	F Day	Seminar	Meeting	Groups	intrvw	Total
Jan	10	Esperance farmers			6			
	10	Dept WSC Project				8		
	11	Esperance farmers			4			
	24	ABC interview wide	e rows				ABC	
	25	UWA -D Mrphy				10		28
Feb	10	Bus field day	16					
	11	Bus field day	45					
	12	Katanning Conf		120				
	13	Bus field day	35					
	14	Perth Conference		330				
	15	Perth Conference		330			_	
	18	UWA (Omnia) mee	t			6		882
Mar	11	WANTFA			11			
	18	Corrigin		53				
	19	Kondinin		31			_	
	19	Kondinin		12				107
Apr	3	York meet				4		
	4	Meckering meet			8			
	4	Goomalling				32		
	8	Dalwalinu				24		
	9	Wickerpin				36		
	10	Gairdner group				24		
	12	WANTFA			11			
	18	2 radio interv					2xRadW	
	19	ABC – autumn tickl	e				ABC	
	23	ABC – resistnc & w	vide rw,				2xABC	
	24	ABC interview – stu	ıbble				ABC	139
May	17	GRDC Report						
								0
Jun	4	Powles UWA	23					
	19	BankWest	<del> </del>			12		35
	Total n	umber of people =	119	876	40	156	7	1191