



Digging Deeper

Participant Perspectives



Moira Lanzarin
Coodardie Stn, Mataranka



Digging Deeper
TNRM Training



Karen McGrath
Sandstone, Katherine



Coodardie Stn, Stuart Hwy, Mataranka



Coodardie Brahman



Sweetpro Supplements



Holistic NT



Sandstone, Florina Rd, Katherine





Beef cattle





Improved pastures





Irrigated Hay Production





Why Digging Deeper?



Course Structure

- pH
- Soil Temperature
- Soil Texture
- Soil Organisms
- Aggregate Strength
- Infiltration
- Ground cover



RASH



Hands On

TOTAL	AVAILABLE									
phosphorus.	phosphorus									
147 161 78 85 55 1400	29	15	10.5	6.9	9.5	50	2			
	sulfur									
	2.7	16	1.8	1.4						
<ul style="list-style-type: none"> → calico - - cube soil test - - top soil intact 										



Soil Tests



Key Learnings





Cows build soil too

More roots = more carbon stored, less carbon in the atmosphere

Less roots = less carbon stored, more carbon in the atmosphere



Coodardie Station,

Mataranka NT—Version as at 31st October 2017 (Google)



Paddock	Area (ha)	(ha)	(ha)	(ha)	(ha)
1 A Nth1	33	26 C Nth7	10	51 E sth 2	57
2 A Nth2	31	27 C Nth8	13	52 F Nth1	9.9
3 A Nth3	48	28 C sth 1 (lane)	5	53 F Nth2	10
4 A Sth 0 (lane)	0.9	29 C sth 2	14	54 F Nth3	
5 A sth 1	3.1	30 C sth 3	20	55 F Nth4	
6 A sth 2	11	31 C sth 4	44	56 F Nth5	
7 A sth 3	13	32 D Nth1	10	57 F Nth6	
8 A sth 4	3.7	33 D Nth2	11	58 F Nth7	
9 A sth 5	5.5	34 D Nth3	12	59 F Nth8	
10 A sth 6	5.5	35 D Nth4	13		
11 B Nth1	25	36 D Nth5	10		
12 B Nth2	26	37 D Nth6	13		
13 B Nth3	28	38 D Nth7	13		
14 B sth 1 (lane)	6	39 D Nth8	12		
15 B sth 2	10	40 D sth 1 (lane)	3.5		
16 B sth 3	38	41 D sth 2	20		
17 B sth 4	19	42 D sth 3	34		
18 B sth 5	13	43 E Nth1	12		
19 B sth 6	21	44 E Nth2	12		
20 C Nth1	11	45 E Nth3	11		
21 C Nth2	10	46 E Nth4	11		
22 C Nth3	9.8	47 E Nth5	12		
23 C Nth4	11	48 E Nth6	12		
24 C Nth5	8.5	49 E Nth7	16		
25 C Nth6	10	50 E sth 1	25		

Approx
(PAC count)

44

15

131 + 383
514

165 main mob (Dry All yrs All str)

49 Preg mob

77 Young bulls

72 Yard wags

20 Held wags (shaw +)

main mob

Preg mob 61 Preg
72 Cows + Calves

Young bulls

Held weaners - line

Yards

Mon	9	Tue	10	Wed	11	Thu	12	Fri	13	Sat	14	Sun	15	Mon	16	Tue	17	Wed	18	Thu	19	Fri	20	Sat	21	Sun	22	Dec
																												2019
	1	Kn	minx	1	Ln	minx	1	1	Nn	minx	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	3	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	4	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	7	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	8	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	9	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	10	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	11	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	12	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	13	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	14	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	15	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	16	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	17	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	18	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	19	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	20	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	21	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	22	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	23	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	24	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	25	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	26	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	27	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	28	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	29	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	30	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	31	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	3	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	4	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5	mag	mag	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

• Hay pellets. 30 kg bags.

Bulls Out

Cows in the right place
at the right time

and their YOUR REASONS

and the right reasons





Extra work?

Just different



Ground Cover & Diversity are KEY



Ode to the Sunlight Harvesters