

TERRALAND

Wheatbelt, W.A.

SUMMARY OF TRIAL RESULTS

Area/name	Crop type	Non-ripped	Ripped	Extra Yield
Mullewa	Canola	2.25 T/ha	3.25 T/ha	+ 1 T/ha
Coorow	Lupins	0.2 T/ha	2.2 T/ha	+ 2 T/ha
Mullewa	Wheat	2 T/ha	3 T/ha	+ 1 T/ha
Wyalkatchem	Wheat	2 T/ha	4 T/ha	+ 2 T/ha
Mingenew	Wheat	2.21 T/ha	3.9 T/ha	+ 1.7 T/ha
Borden	Barley	2.65 T/ha	3.78 T/ha	+ 1.13 T/ha
Wongan Hills	Wheat	1.5 T/ha	3 T/ha	+ 1.5 T/ha
Kellerberrin	Barley	0.9 T/ha	4 T/ha	+ 3.1 T/ha
Lake Grace	Barley	1.5 T/ha	3.25 T/ha	+ 1.75 T/ha



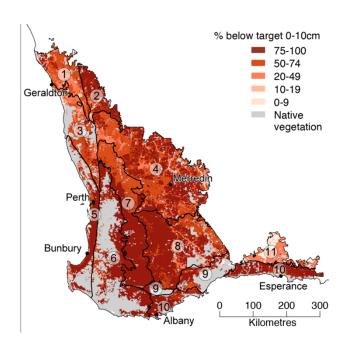
The Bednar Terraland provides the most cost effective soil renovation.

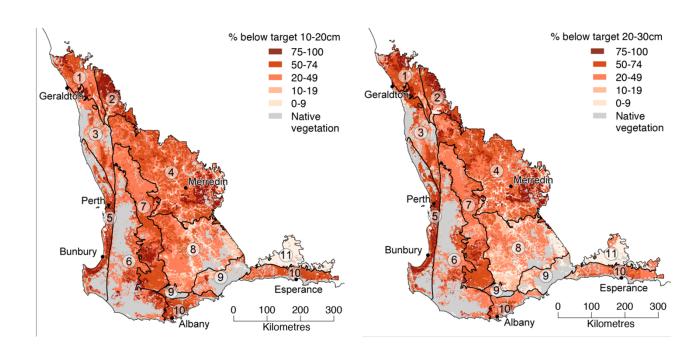
SOIL ACIDITY - WEST AUSTRALIA

(161,000 SOIL SAMPLES TAKEN 2005 - 2012)

Topsoil (pH<5.5)

Subsoil (pH<4.8)





SOIL AMELIORATION



Soil compaction (\$900 million/yr)

Sodicity (\$600 million/yr)

Non-wetting soils (\$250 million/yr)

CUGLEYS DEMONEWDEGATE

FIX NON WETTING SOIL IN ONE PASS

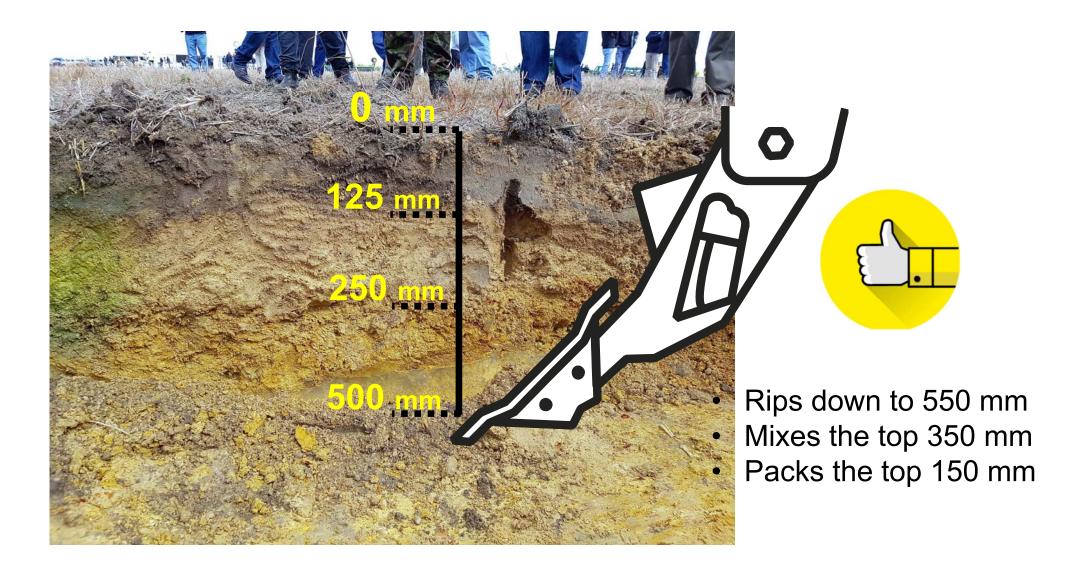


Terraland ripped to 400 – 550 mm

Good mixing of the gravel subsoil with the sandy non-wetting top soil.

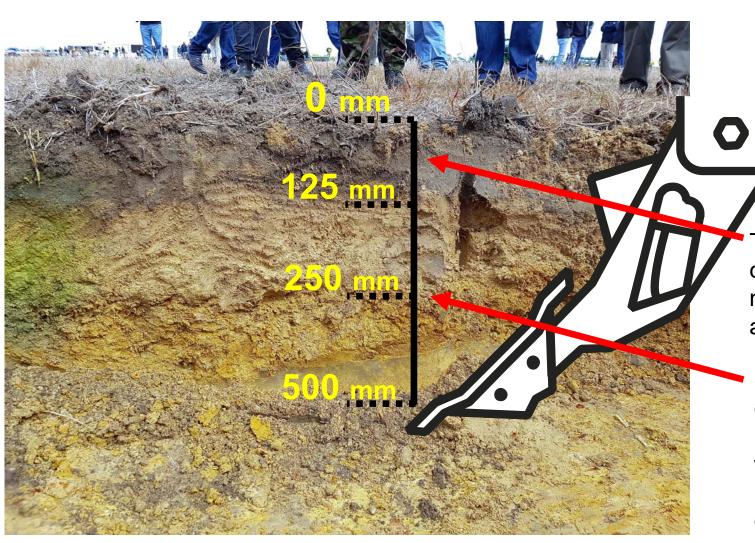
TERRALAND TINE MIXING TECHNOLOGY





TERRALAND TINE MIXING TECHNOLOGY



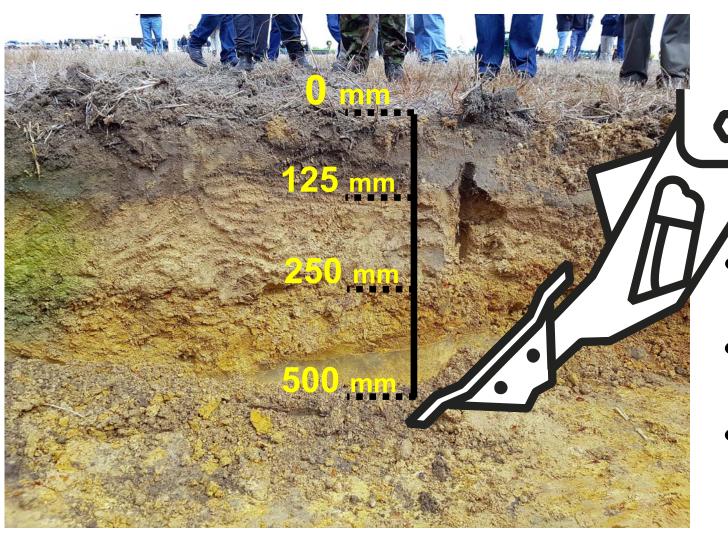


Top soil, darker in colour, rich in organic matter and root activity.

Subsoil, low in organic matter, less root activity, more water, more clay particles and generally higher potassium.

TERRALAND TINE MIXING TECHNOLOGY







- Increase oxygen supply to the roots, and Remove hardpans.
- Mix top and subsoil for better soil structure and nutrient availability.
- Increase root growth and microbial activity to increase soil organic matter at depth!

TERRALAND GREAT SUCCESSIAR WONGAN HILLS



GREAT SUCCESS BRUCE ROCK



Not ripped





Terraland ripped



TERRALANDIN ACTION





- Rips down to 550 mm
- Mixes the top 350 mm
- Packs the top 150 mm





THE COMMON HARDPAN







THE HARDPAN AND LIME INCORPORATION SOLUTION









REMOVED THE HARDPAN AND BEDNAR UNLOCKED MORE SOIL NUTRIENTS

Restricted root growth not ripped.











SOIL RENOVATION BE COOROW - MICK OCALLAGHAN



SOIL RENOVATION RESULTS COOROW - MICK OCALLAGHAN

BEDNAR FARM MACHINERY

1.29T/ha non ripped

3.5T/ha ripped



SOIL RENOVATION PINGELLY — JEFF EDWARDS

Jeff Edwards talking about how the Terraland fixed the non wetting problem in his Barley crop. Non wetting sand soil pit.

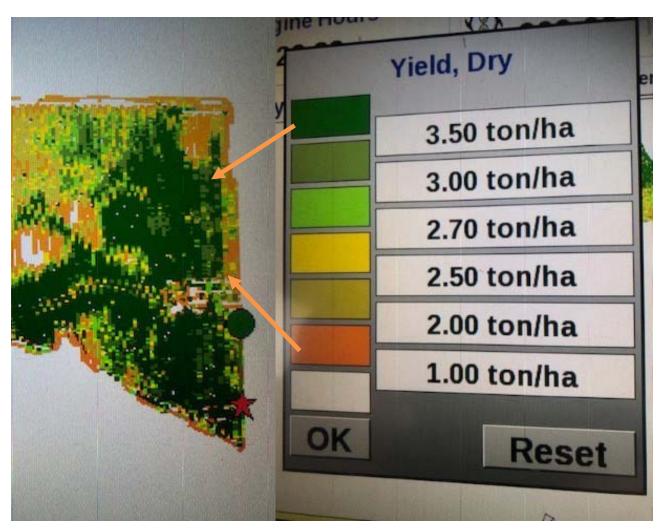




SOIL RENOVATION RESULTS PINGELLY — JEFF EDWARDS



3.18T/ha ripped and 1.73 T/ha non ripped



SOIL RENOVATION RESULTS MULLEWA - TENINDEWA





Ripped.

SOIL RENOVATION RESULTS MULLEWA

Restricted root growth not ripped.







Ripped.

1T/ha extra Wheat & Canola

SOIL RENOVATION RESULTS COOROW

BEDNAR FARM MACHINERY

Yeild: Lupin 2 tonne per ha ripped.

Yeild: Lupin 0 tonne per ha Non-ripped.







Excellent plant available moisture for germination.

No available moisture at germination.

SOIL RENOVATION RESULTS MULLEWA - ERADU

3T/ha Terraland ripped.



Excellent plant available moisture for germination.



Drought affected non-ripped.
2T/ha non ripped.

SOIL RENOVATION RESULTS FITZGERALD - LAKE KING

BEDNAR FARM MACHINERY

Tightly compacted heavy soil





Non-ripped



Ripped



SOIL RENOVATION RESULTS FITZGERALD - LAKE KING



Poor establishment



Much better growth rate





Excellent growth rate on the ripped strip

SOIL RENOVATION RESULTS

WYALKATCHEM

Much bigger Biomass



4t ripped





2t non-ripped Moisture stress, early head emergence

CLAY BLADES TURN THE TERRALAND FARM MA







TRIAL RESULTS DEMPSTER FARM MIG MINGENEW IRWIN GROUP

	V-!!-!	Dustain	NA/-:- -1	Carrantina	Fatur Wald
	Yeild	Protein	Weight	Screenings	Extra Yield
Bednar	3.91	10.9	76.34	3.9	+ 1.7
Tilco/Spader	3.86	11.2	75.74	4.4	+ 1.65
Spader	3.41	11.5	77	3.29	+ 1.2
Deep Ripper	2.71	10.2	78.28	3.9	+ 0.5
Tilco	2.49	10.2	78.84	2.63	+ 0.28
One Way Plough	2.18	12.8	77.1	3.78	- 0.03
NIL	2.21	11.4	78.04	3.69	0

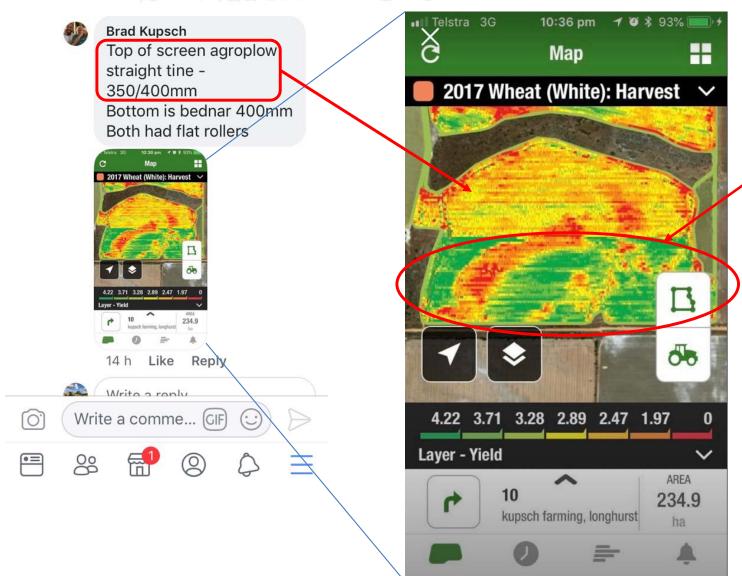
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SOIL RENOVATION RESULTS





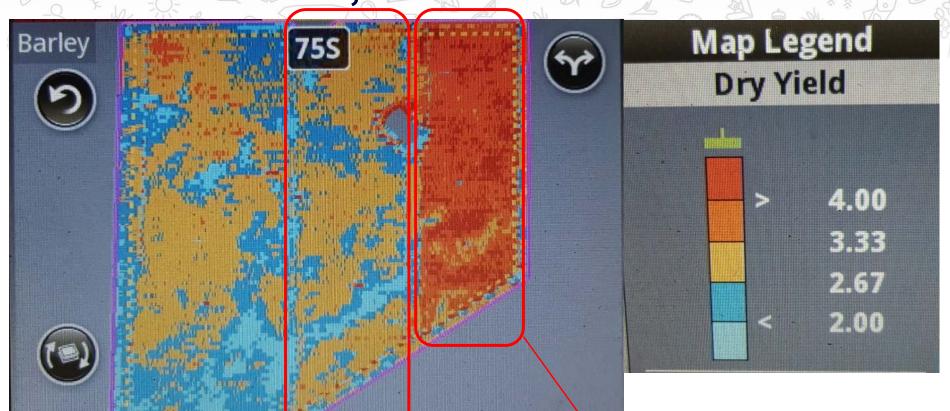
Terraland ripped to 400mm

1.8 – 2 t/ha extra yield over straight tine ripper.

Extra Income approx. \$600 per ha



RESULTS BEDNA BEDNA BUSTRALIA



Big Yield increase in frost zone, Thanks to Terraland renovation.

Variety Planet		
Area	Worked	119.97 ha
Moisture	Avg	12.71 %
Dry Yield	Avg	2.65 t/ha
Dry Weight		317.95 t

Variety Planet F	Ripped	
Area	Worked	23.16 ha
Moisture	Avg	13.60 %
Dry Yield	Avg	3.78 t/ha
Dry Weight		87.45 t

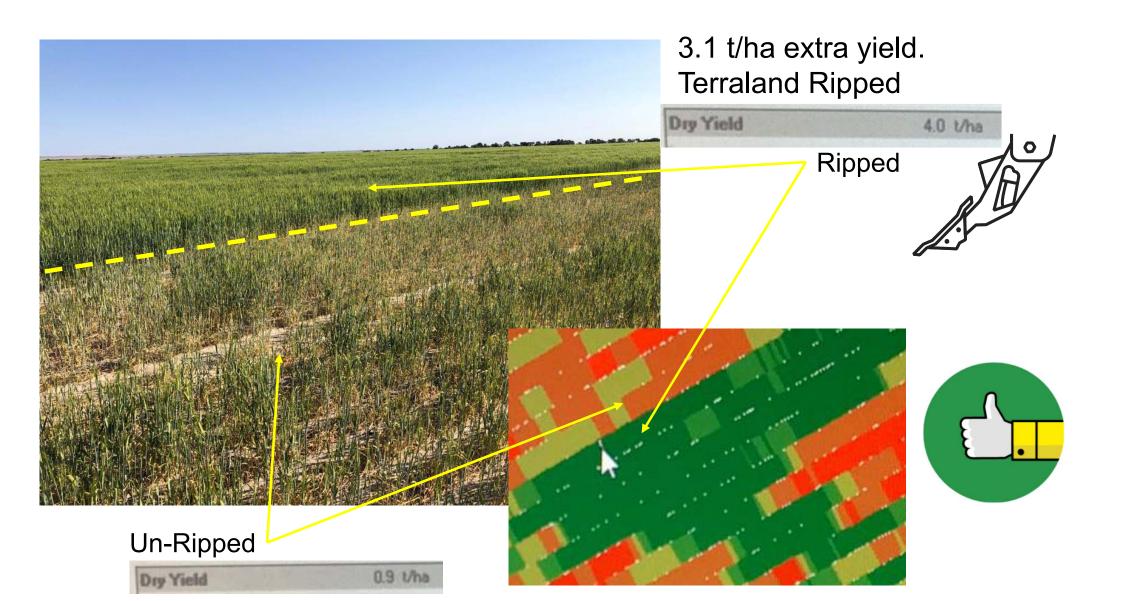


BRAD WEST – 15,000HA - WONGAN HILLS AMAZING RESULTS – GSR = 160MM, 2019

Heads counts indicate 1.5 t/ha extra yield. Terraland Ripped



MATHEW PARKHOUSE - KELLERBERRIN BELLER AMAZING RESULTS - GSR = 175MM, 2019

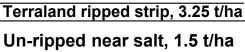


RESULTS BEDI PETER JOYCE, LAKE GRACE WESTERN AUSTRALIA





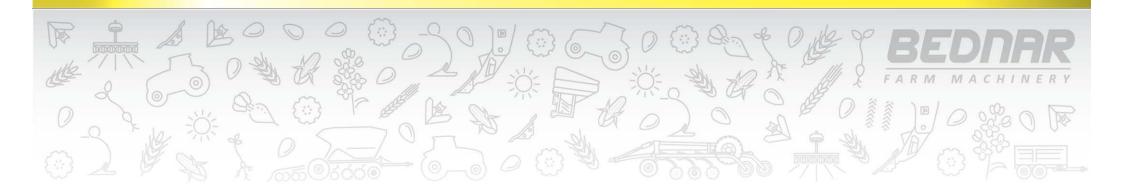
Un-ripped on good side. 1.75 t/ha, Sand over clay





The average yield increase is 1.6 t/ha





















Call Grant Borgward on 0428 816 701