

Technology

Profit or distraction
@sheepsback @agpromanagement



In the Beginning



Sheep Handler – Individual immobilize-weigh & draft + autodraft + side+ EID Reader

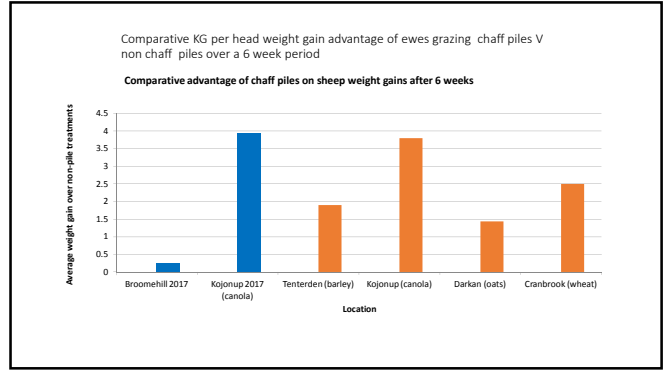


Multi staff



Capsuling with an immobilizer





- ### Show Me The Money
- Create a Model Farm
 - 2000 Ha 50% Sheep 50% Crop
 - 9DSE or 7500 sheep that utilise stubbles over Summer
 - Average weight advantage 3.1 kgs per hd- 50% cereal 50% canola
 - What's this worth?
 - Sheep conversion ratio 3/1 – 3 kg's of feed for 1 kg of live weight
 - Feed cost \$250,
 - 80 k Chaff cart 21 % ROI

Net Cost saving

Sheep	Weight Gain	Total Weight Gain	Tonnes Feed Required	Feed Cost
7480	3.1	22692		\$250
Net Feed Cost Saved				\$17019

- ### Technology
- Apps
 - Stock management
 - Hardware
 - Sheep handling
 - Individual v multiple
 - Building new yards, save \$k on drench race and spend on handler.
 - Sheep Feeding- chaff cart.
 - Water & stock management
 - Camera/sensors
 - Drones
 - Electronic tags / stud / prime lambs / keep a good count of stock
 - What's next
 - Nanopipes
 - IoT On-Pasture
 - Blue Sky
 - Virtualising
 - Micro-drones



Phoney!?



Farm management Apps
Stock/ whole farm- aglive, mymob, agriweb, farmware



Notes / Task Allocation



- Improved livestock recording- generally appalling
- Feedlotting Lambs- getting rid of Non performers
- Stud or nucleus flock- no brainer- efficiency & Accuracy(big issue)
- Passive recording of bodyweight data, when processing sheep, culling
- If you do lots of separating- twin/ early late lamb ect, boxed up mobs

How many DSE have you got?

Class	No	DSE	Total DSE
Ewes	2000	1.5	3000
E Hoggs	900	1	900
W Hoggs	900	1	900
	3800		4800

RemoteWater monitoring
USEE, Observant



Quad copter/ Drone



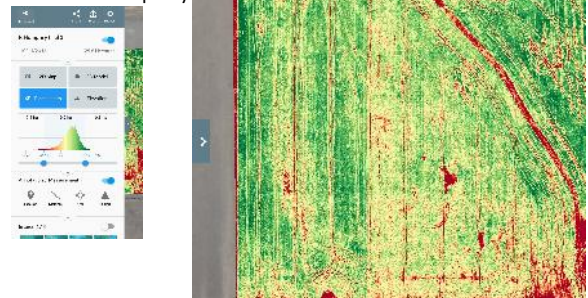
New Mavic



Litchi- preprogramed mission



Drone Deploy



Drones

- Less than 2 kg, no license required
- Livestock- water runs-
- Lambing observation
- Infrared potential, stock health, stock counting
- Ndvi potential
- Assisting with mustering

What's coming
 Virtual fencing- grazing management & stock loss
 Tattoo- indicating stress, pregnancy, infection
 Passive Drone- Fixed wing- different algorithm's



Assumptions

Sheep machinery	4000	3000	4000	3000
Sheep Numbers	4000	3000	4000	3000
Purchase Price	30000	30000	15000	15000
Trade In Value	30%	30%	30%	30%
Trade In Value	9000	9000	4500	4500
Years	15	15	15	15
Depreciation Per Annum	1400	1400	700	700
Interest Cost	8.00%	8.00%	8.00%	8.00%
Interest Cost Per Annum	\$1,560	\$1,560	\$780	\$780
Total Fuel / Oil/Electricity	300	300	300	300
R&M Per Year	300	300	300	300

Show Me The Money

DSE	4000	3000	4000	3000
Cost	30000	30000	15000	15000
Depreciation	\$1,400	\$1,400	\$700	\$700
Interest	\$1,560	\$1,560	\$780	\$780
Fuel and Oil/Electricity	\$300	\$300	\$300	\$300
R&M	\$300	\$300	\$300	\$300
Total	\$3,560	\$3,260	\$1,780	\$1,780
cost per DSE	0.89	1.09	0.45	0.59
Cost Per HA @ 4DSE	\$4.75	\$6.52	\$2.37	\$3.56

Keeping it Real

Cost	4000 DSE	3000 DSE
30000	.89	1.09
15000	.45	.59
Current Sheep GM	25-30	25-30