

# PRECISION LAMBING



paradoo prime

# PIGEON PONDS - SW VIC - 600 mm

Tim & Georgie Leeming

Pat Jackson - Livestock Manager

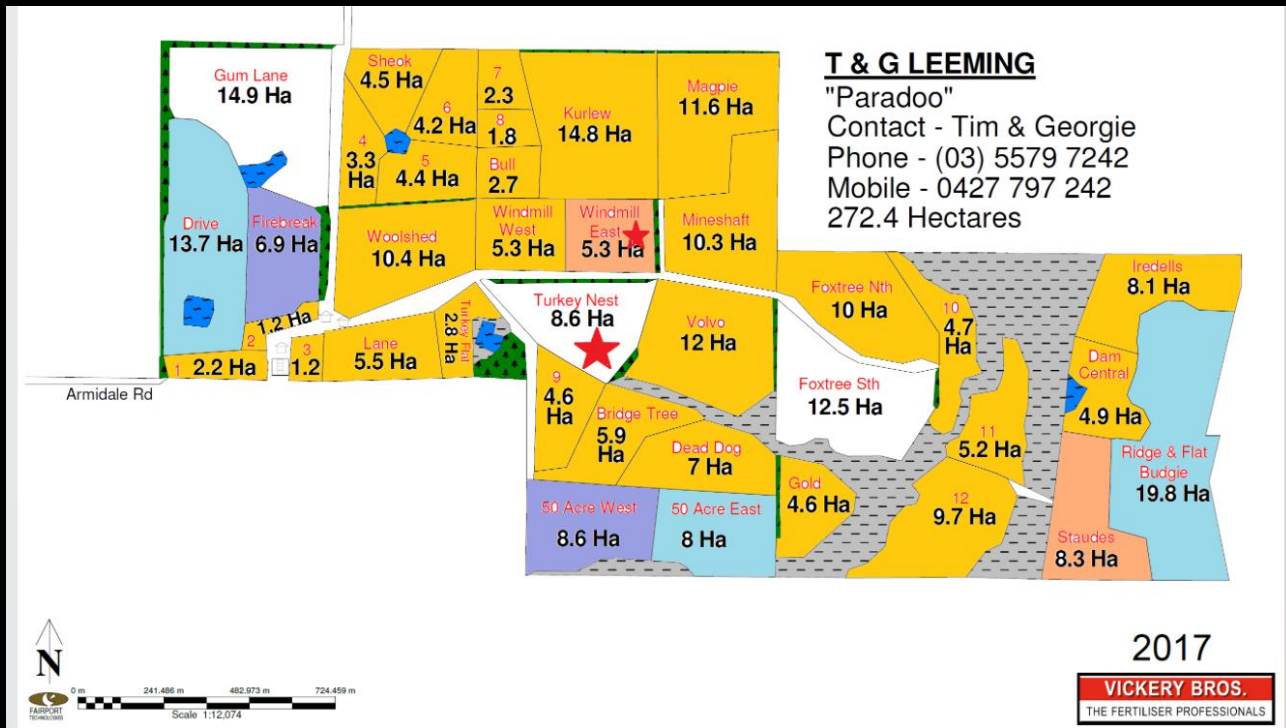
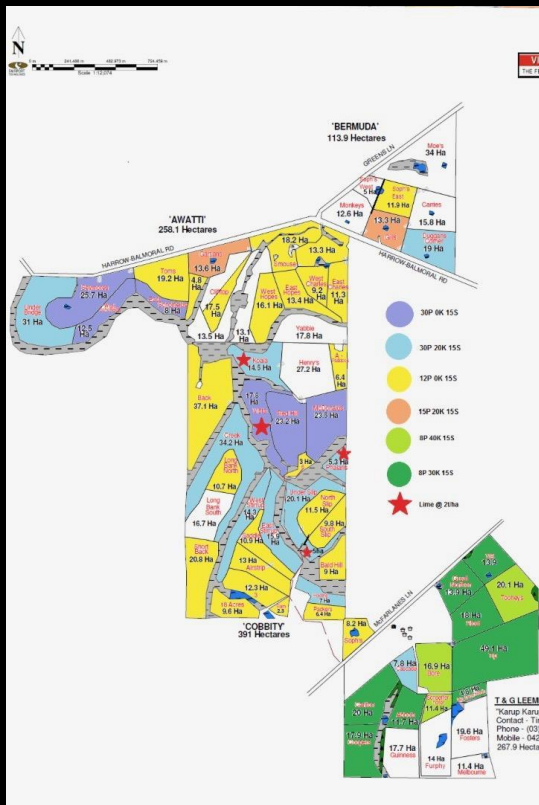
Self replacing prime lamb flock 8500 sheep



Other Stats-1530Ha-Grazing 1350 Ha annually- Av 16 DSE/Ha -  
22000DSE- Paddock size av 11ha-Reticulated water-  
Sandy Loam to sandy clay loam soils.



# PARADOO - COBBITY - AWAITI - KARUP



# Changes of Significance

1993 - PURCHASED RAMS WITH ASBV'S

1995 - PREG-SCANNING FOR MULTIPLES

1996 - CEASED MULESING SHEEP

1996 – BENCHMARKING the BUSINESS

1997 - WEANING LAMBS

2004- Benefits of reduced Mob size



# Changes of significance

2007 - JOINING EWE LAMBS

2006 - STUD RECORDING-Own genetics

2007- CONTAINMENT FEEDING

2008 - REDESIGNING MATERNAL SHEEP-  
Reduced AW, Increased Fat and muscle

2010 - SHORTER JOINING LENGTHS  
Triplets in commercials

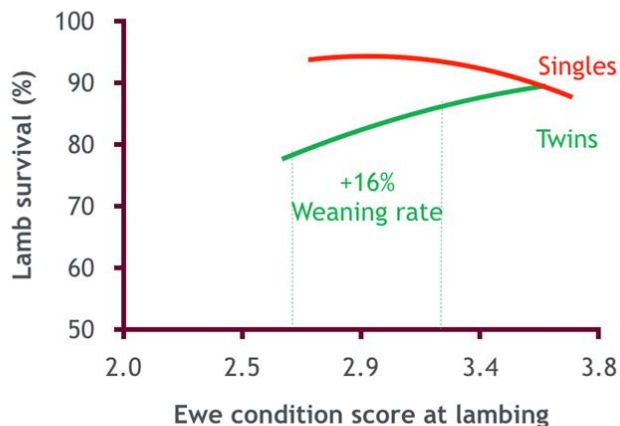
2016-PRECISION LAMBING



# MATERNALS PROJECT - 2014 / 2015

## Lifetime Maternals - key points

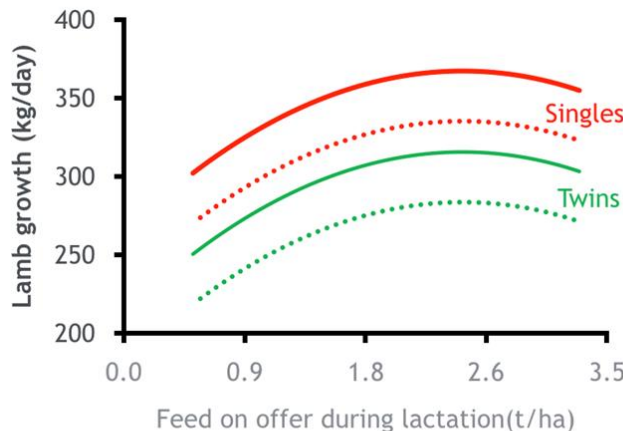
- Much higher intake capacity
- Maintenance at 500 kg/ha and twins gained significant condition on 800 to 1000 kg/ha in late pregnancy
- Singles bullet proof but vulnerable to dystocia at higher levels of nutrition
- Strong case for differential allocation of feed to twin bearing ewes



# MATERNALS PROJECT - 2014 / 2015

## Lifetime Maternals - key points

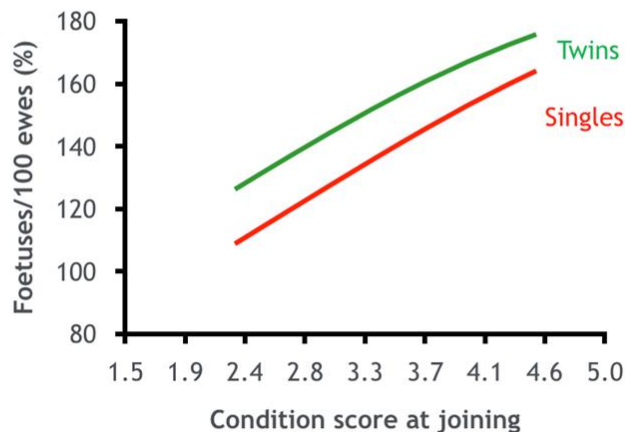
- Lamb growth = FOO plus % clover
- >1500 kg/ha and 30% clover where possible to maximum lamb growth
- Ewe recovery - much greater compensatory gain in low CS ewes, but don't leave it all to post-weaning
- If lambing singles at CS 2.7 and twins at 3.3, then CS 3 at weaning if 1500 kg/ha during lactation



# MATERNALS PROJECT - 2014 / 2015

## Lifetime Maternals - key points

- Give twin ewes a chance at their next joining
- Poor nutrition during pregnancy and lactation has a greater effect on carryover reproduction than expected based on CS at next joining



**WHAT ENABLES YOU TO OPTIMISE PRODUCTION?**

# ANIMAL WELFARE

**90-95% OF EWE & LAMB MORTALITY  
OCCURS IN LATE PREGNANCY  
AND BY DAY 2 OF LACTATION**



# LAMB SURVIVAL + EWE SURVIVAL



# PRECISION LAMBING

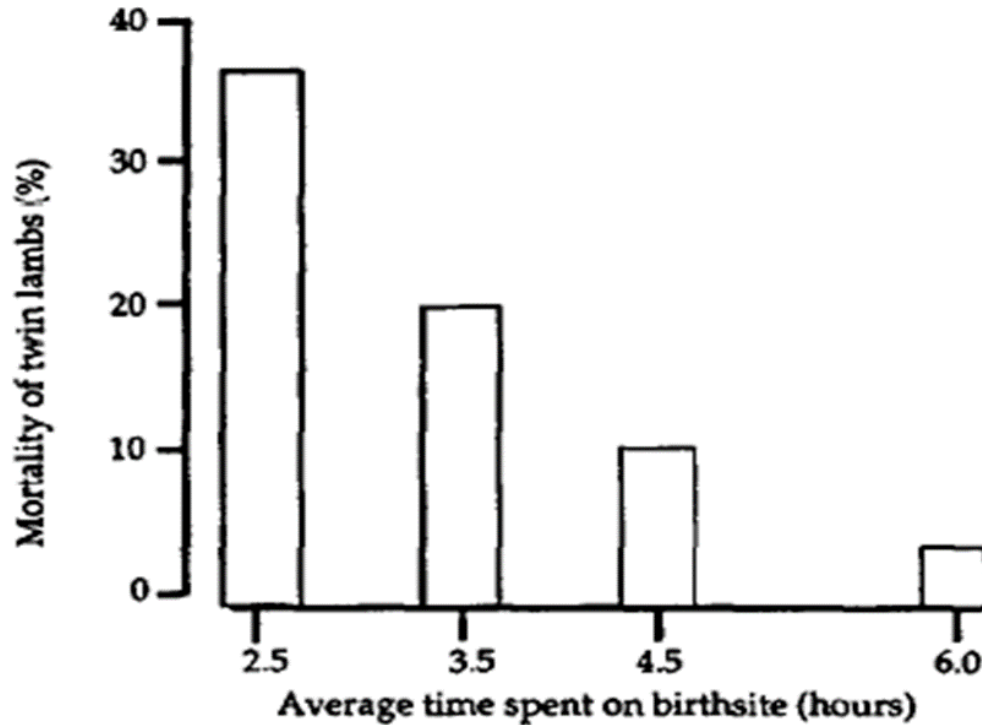


**WHAT ARE THE TARGETS?**

- Paddock Selection/Shelter
- MOB SIZE
- FEED ON OFFER
- FEED QUALITY
- CONDITION SCORE



## Time at birth site



# COLLECT PADDOCK DATA

Cobitty															
Paddock	Area/Ha	Days In Rotation	No Head	FOO/Start	S/Rate	P'sture Growth (kg/DW/day)	Intake (kg/DW/hd/day)	Total Pasture Growth	Total Consumption	FOO/End	Potential	Lamb Dths	Ewe Dths	Lmb S'val	Ewe Mort.
Stirrup East 1	5	20	34	1850	6.8	35	3	700	408	2142	68		1	100.0	2.9
Stirrup East 2	5	20	44	1650	8.8	35	3	700	528	1822	88		1	100.0	2.3
Stirrup East 3	5	20	43	1550	8.6	35	3	700	516	1734	86		1	100.0	2.3
Stirrup West 1	5	20	42	1500	8.4	35	3	700	504	1696	84		0	100.0	0.0
Stirrup West 2	5	20	39	1550	7.8	35	3	700	468	1782	78		2	100.0	5.1
Stirrup West 3	5	20	41	1500	8.2	35	3	700	492	1708	82		1	100.0	2.4
Phalaris	5.3	20	42	1950	7.9	35	3	700	475	2175	84		1	100.0	2.4
Under Slip	14.7	20	121	1550	8.2	35	3	700	494	1756	242		0	100.0	0.0
Opp Bald Hill	5	20	36	1600	7.2	35	3	700	432	1868	72		0	100.0	0.0
Vista 1	6.6	20	42	1500	6.4	35	3	700	382	1818	84		1	100.0	2.4
Vista 2	6.6	20	76	1600	11.5	35	3	700	691	1609	152		2	100.0	2.6
Vista 3	6.6	20	38	1300	5.8	35	3	700	345	1655	76		2	100.0	5.3
Koala	14	20	102	1250	7.3	35	3	700	437	1513	204		0	100.0	0.0
Average	7.2		53.8	1565	7.9							▲	0.92	100.0	2.1
Total	88.8		700	Footoses	1400							0	12		
Awatti															
Bridge 1	7.5	20	55	1600	7.3	35	3	700	440	1860	110		2	100.0	3.6
Bridge 2	7.5	20	56	1450	7.5	35	3	700	448	1702	112		0	100.0	0.0
Bridge 3	7.5	20	52	1500	6.9	35	3	700	416	1784	104		1	100.0	1.9
Bridge 4	7.5	20	36	1100	4.8	35	3	700	288	1512	72		0	100.0	0.0
Schofield West	8	20	75	1400	8	35	3	700	563	1538	150		0	100.0	0.0
Schofield East	12.5	20	61	1500	4.9	35	3	700	293	1907	122		1	100.0	1.6
Triangle	4.5	20	31	2100	6.9	35	3	700	413	2387	62		0	100.0	0.0
Crossing	13.3	20	40	1500	3.0	35	3	700	180	2020	80		0	100.0	0.0
Cascade	5	20	44	1500	8.8	35	3	700	528	1672	88		0	100.0	0.0
Average	8.1		50	1517	6.6							▲	0.44	100.0	0.8
Total	162.1	Total Ewes	450	Footoses	900							0	16		1.6
Total Twin Ewes	1150				1158										
Total Area	162.1														
Stocking Rate	7.09	ha													
Paddock	Area/Ha	No Ewes	No Footuses	Lambs Marked	Survival %	Ranking	Note:								
East Stirrup 1	5	34	68	63	92.6	10.0	Ewe deaths: <u>preg tox</u> (foot abscess)								
East Stirrup 2	5	44	88	86	97.7	2.0	Foot abscess being the major cause of death leading to <u>preg tox</u> .								
East Stirrup 3	5	43	86	78	90.7	15.0	Ranking formula takes into account both Lamb Survival and Ewe Mortality.								
West Stirrup 1	5	42	84	79	94.0	8.0	Lamb deaths:								
West Stirrup 2	5	39	78	73	93.6	9.0	- Exposure ( poor weather, too small)								
West Stirrup 3	5	41	82	78	95.1	7.0	- Dead at Birth								
Phalaris	7.1	42	84	69	82.1	22.0	- Predation								
Under Slip	14.7	121	242	211	87.2	19.0	- Dystocia (minimal)								
Vista 1	6.6	42	84	76	90.5	16.0									
Vista 2	6.6	76	152	140	92.1	11.0									
Vista 3	6.6	38	76	70	92.1	11.0									
Koala	14	102	204	186	91.2	14.0									
Opp Bald Hill	7	36	72	66	91.7	13.0									
Bridge 1	7.5	55	110	105	95.5	6.0									
Bridge 2	7.5	56	112	111	99.1	1.0									
Bridge 3	7.5	52	104	101	97.1	4.0									
Bridge 4	7.5	36	72	69	95.8	5.0									
Schofield East	12.5	61	122	105	86.1	21.0									
Schofield West	8	75	150	130	86.7	20.0									
Triangle	4.5	31	62	55	88.7	18.0									
Crossing	13.3	40	80	72	90.0	17.0									
Cascade	5	44	88	86	97.7	2.0									
Total	165.9	1150	2300	2109	91.7										

# SUMMARISE RESULTS & MAKE CHANGES

Ewe Lmb Twin	484	968	0	0.0%	1.13
Ewe Lmb Single	288	288	0	0.0%	0.69
Late Twins	173	346	0	0.0%	2.34
Triplets	83	249	102	41.0%	0
Total	1028	1851	102	5.5%	5.64

Ewe Mortality: Data taken during lambing. Pre and post lambing can incur an extra .3% mortality in ewes and up to 2% in lamb mortality to weaning.

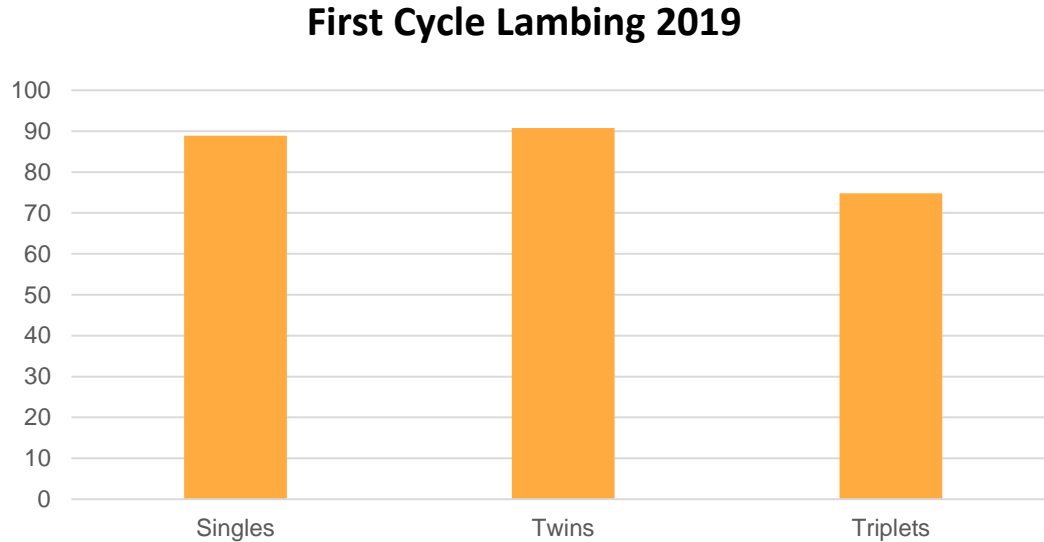
## Twin Bearing Ewe's

Paddock Valuation	#1	#2	#3	Average	Rank (All)	Rank (Adult)
East Stirrup 1	92.65	0.88	0.00			
East Stirrup 2	97.73	0.91	0.00			
East Stirrup 3	90.70	0.89	0.00			
East Stirrup 4			0.00			
West Stirrup 1	94.05	0.89	0.00			
West Stirrup 2	93.59	0.91	0.00			
West Stirrup 3	95.12	0.79	0.00			
Phalaris	82.14	0.81				
Under Slip	87.19	0.86				
Vista 1	90.48	0.92	0.00			
Vista 2	92.11	1.02	0.00			
Vista 3	92.11	0.53	0.00			
Koala	91.18	0.87				
Opp Bald Hill	91.67	0.83	0.00			
Holding						
Bridge 1	95.45	0.94				
Bridge 2	99.11	1.10				
Bridge 3	97.12	0.91				
Bridge 4	95.83	0.83				
Scholfields East	86.07					
Scholfield West	86.67	0.89				
Triangle	88.71					
Crossing	90.00					
Cascade	97.73		0.00			

## Cobbity 2017 Lamb Survival Summary

	No. Ewes	Foetos'	Lms Mked	Survival	Ewe Mort.	
June Tw	1150	2300	2109	91.7%	1.59	17
June S	1112	1112	1061	95.4%	0.45	5
Aug Tw	944	1888	1647	87.2%	2.05	18
Aug S	640	640	599	93.6%	0.94	6
Totals	3846	5940	5416	91.2%		46
			1.4082163			1.1960478

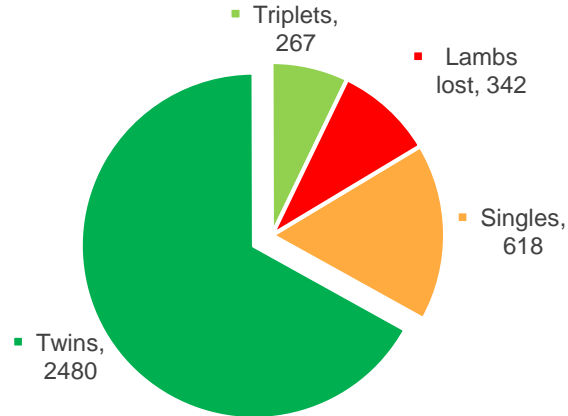
# SUMMARISE RESULTS & MAKE CHANGES



91% Twin Survival  
75% Triplet Survival  
89% Single Survival  
0.41% Ewe Mortality  
**89% Overall Survival**

# SUMMARISE RESULTS & MAKE CHANGES

## First Cycle Lambing 2019



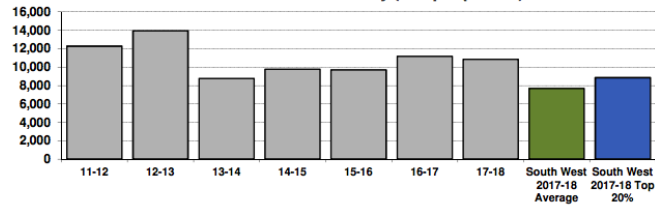
91% Twin Survival  
75% Triplet Survival  
89% Single Survival  
0.41% Ewe Mortality  
**89% Overall Survival**

# 2019 PARADOO PRIME SCANNING

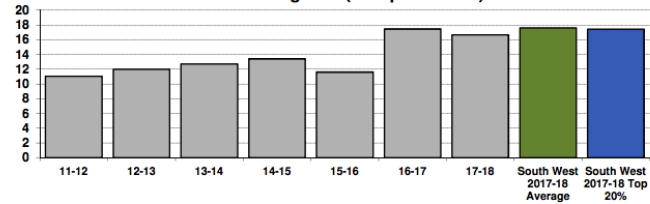
Cobbity 2nd Join	527	447	1065	107	0	2146	2898	1.79%	1.35%	
Paradoo last	86	66	223	35			617	1.90%		
Cobitty last	115	83	293	35			774	1.8		
		596	1581	177			4289			
TOTAL EWES	166	1572	3616	392	1		9984	1.79%	1.73%	97%

## WHOLE FARM DATA

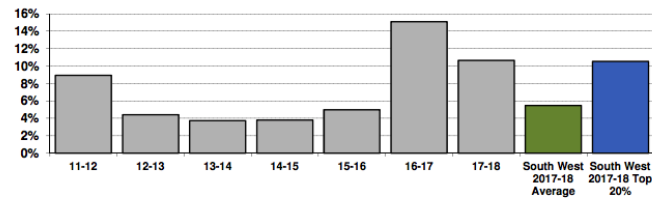
Labour Efficiency (dse per person)



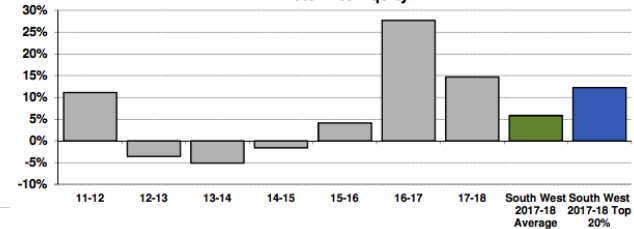
Stocking Rate (DSE per hectare)



Return to Assets

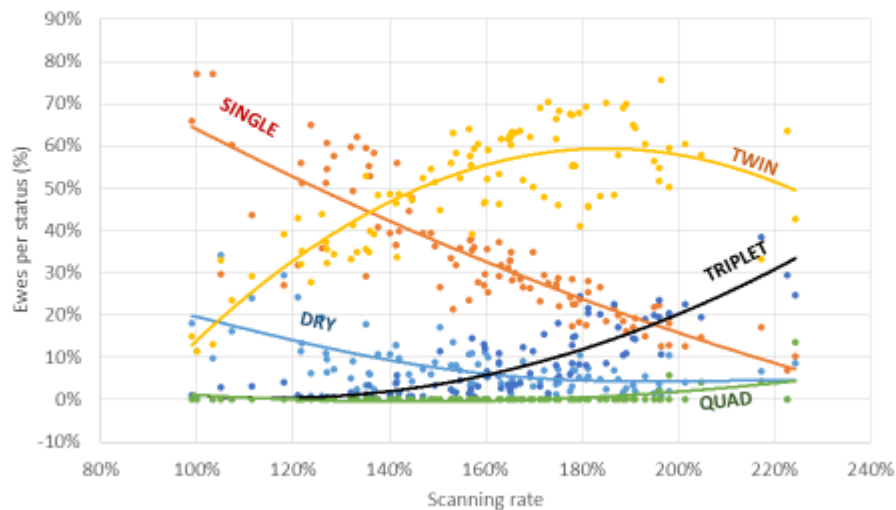


Return to Equity



# 2018 PARADOO PRIME SCANNING

## Scanning rates



# Triplets- Our management to date

Paddock	HA	No	<u>ewe</u> s	Foetus	Marked	% Surv	Ewe Mort
Bum Hill Creek	5		14	42	29	0.69	0
Vista Creek	8		25	75	64	0.85	0
Yubble Creek	6		23	69	55	0.80	0
Sophies Creek	1.5		7	21	12	0.57	0
Trout Dam	4		11	33	25	0.76	0
Gigga native reserve	4		9	27	16	0.59	1
Baldhill	6		29	87	66	0.76	0
Average	4.9		17	354	267	0.75	
Total	34.5	ewes	119	Foetoses	MKD	75.42	0.84



# Triplets- Managing intake in Late pregnancy



**Why do we think precision lambing is the next step in  
lamb survival?**

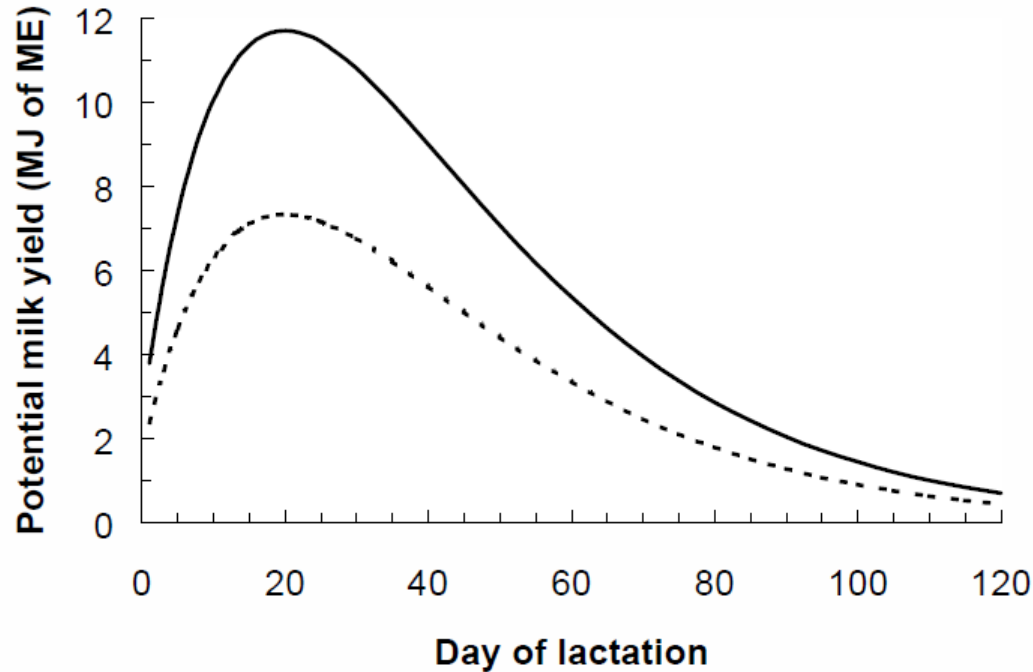
# THE BENEFITS OF THIS SYSTEM?

- - MULTIPLE USE OF BEST PADDOCKS / SHELTER
  - EFFICACY OF ANIMAL HEALTH eg: VACCINE, WORM CONTROL
  - LABOUR SAVING-CONDENSING MGT/SURVEILANCE
  - ABILITY TO CONTROL SUBSEQUENT GRAZING & FEED ALLOCATION
  - MARKING DATE / AGE
  - WEANING DATE
  - MARKETING LAMBS
  - EWE RECOVERY
  - PUBERTY DATE FOR EWE LAMB JOINING
  - FULLY UTILISE KNOWN TECHNOLOGY

Ewe Recovery-Weaning date



# Weaning on time for Ewe Recovery



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