PRECISION LAMBING



PIGEON PONDS - SW VIC - 600 mm Tim & Georgie Leeming Pat Jackson - Livestock Manager Self replacing prime lamb flock 8500 sheep



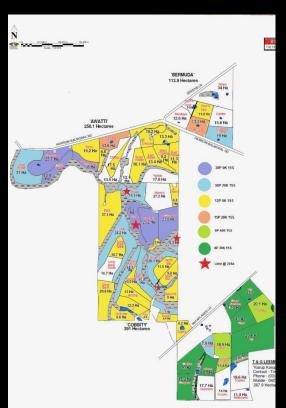


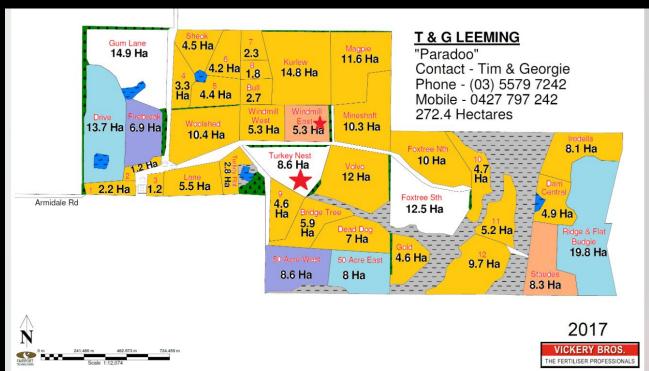


Other Stats-1530Ha-Grazing 1350 Ha annually- Av 16 DSE/Ha - 22000DSE- Paddock size av 11ha-Reticulated water-Sandy Loam to sandy clay loam soils.



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

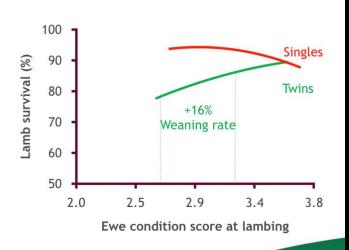
2016-PRECISION LAMBING



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

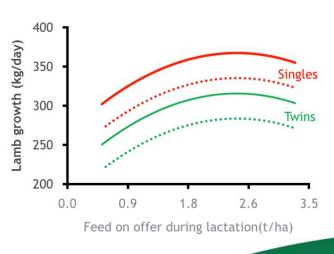




MATERNALS PROJECT - 2014 / 2015

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

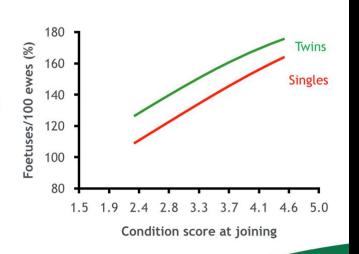




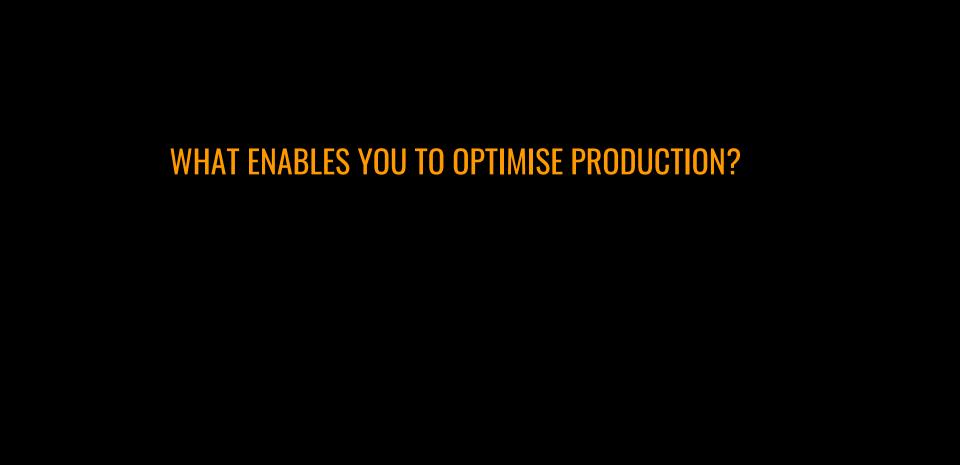
MATERNALS PROJECT - 2014 / 2015

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







ANIMAL WELFARE

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





LAMB SURVIVAL + EWE SURVIVAL



PRECISION LAMBING

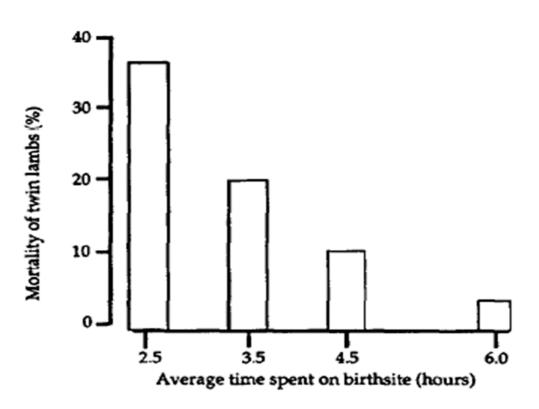


WHAT ARE THE TARGETS?

- PADDOCK SELECTION/Shelter
- MOB SIZE
- FEED ON OFFER
- FEED QUALITY
- CONDITION SCORE



Time at birth site



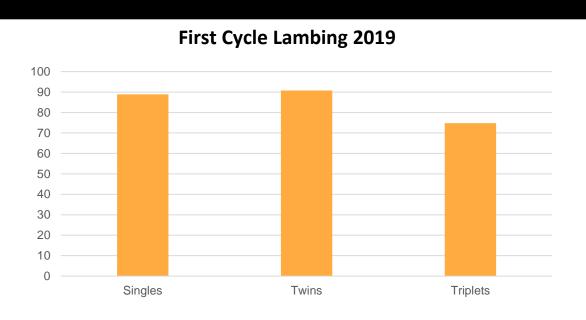
COLLECT PADDOCK DATA

							Cobitty								
Paddock	Area/Ha	Days In Rotation	No Head	FOO/Start	S/Rate	P'sture Growth (kg/DM/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 20	42 39	1500 1550	8.4 7.8	35 35	3	700 700	504 468	1696 1782	84 78		0 2	100.0	0.0 5.1
Stirrup West 2 Stirrup West 3	5	20	41	1500	8.2	35	3	700	492	1782	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 7.2	20	102 53.8	1250 1565	7.3 7.9	35	3	700	437	1513	204		0.92	100.0	0.0 2.1
Average Total	88.8		700	Foetoses	1400							0	12	100.0	2.1
Iotai	00.0		700	roetoses	1400		Awaiti					U	12		
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
Scolfield West	8	20	75	1400	9.4	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 20	31	2100	6.9	35 35	3	700 700	413 180	2387	62 80		0	100.0	0.0
Crossing Cascade	13.3	20	40 44	1500 1500	3.0 8.8	35	3	700	180 528	2020 1672	88	+	0	100.0	0.0
Average	8.1	20	50	1517	6.6	35	3	700	328	10/2	- 88	Α	0.44	100.0	0.8
Total	162.1	Total Ewes	450	Foetoses	900							0	16	120.0	1.6
		10141 21105	430												
Total Twin Ewes	1150		450		1158										
Total Twin Ewes Total Area	1150 162.1		130												
Total Twin Ewes	1150	ha	130												
Total Twin Ewes Total Area Stocking Rate	1150 162.1 7.09	ha			1158	Ranking	Number								
Total Twin Ewes Total Area Stocking Rate Paddock	1150 162.1	ha No Ewes	No Foetuses	Lambs Marked	1158 Survival %	Ranking 10.0	Note:	ee tox (foot abscess)							
Total Twin Ewes Total Area Stocking Rate	1150 162.1 7.09 Area/Ha	ha	No Foetuses		1158	Ranking 10.0 2.0	Ewe deaths: pre	eg tox (foot abscess)	leath leading to preg to	QX-					
Total Twin Ewes Total Area Stocking Rate Paddock East Stirrup 1	1150 162.1 7.09 Area/Ha 5	ha No Ewes 34	No Foetuses	Lambs Marked 63 86 78	1158 Survival % 92.6	10.0	Ewe deaths: pre	pg tox (foot abscess)	leath leading to goeg to	Ω%-					
Total Twin Ewes Total Area Stocking Rate Paddock East Stirrup 1 East Stirrup 2 East Stirrup 3 West Stirrup 3	1150 162.1 7.09 Area/Ha 5 5 5 5	ha No Ewes 34 44 43 42	No Foetuses 68 88 86 84	Lambs Marked 63 86 78 79	1158 Survival % 92.6 97.7 90.7 94.0	10.0 2.0 15.0 8.0	Foot abscess be	ring the major cause of de							
Total Twin Ewes Total Area Stocking Rate Paddock East Stirrup 1 East Stirrup 2 East Stirrup 3 West Stirrup 1 West Stirrup 1	1150 162.1 7.09 Area/Ha 5 5 5 5 5	ha No Ewes 34 44 43 42 39	No Foetuses 68 88 86 84 78	Lambs Marked 63 86 78 79	1158 Survival % 92.6 97.7 90.7 94.0 93.6	10.0 2.0 15.0 8.0 9.0	Foot abscess be	eg tox (foot abscess) ling the major cause of de a takes into account both							
Total Twin Ewes Total Area Stocking Rate Paddock East Stirrup 1 East Stirrup 2 East Stirrup 3 West Stirrup 3 West Stirrup 2 West Stirrup 2 West Stirrup 2	1150 162.1 7.09 Area/Ha 5 5 5 5 5 5	ha No Ewes 34 44 43 42 39 41	No Foetuses 68 88 86 84 78 82	Lambs Marked 63 86 78 79 73	1158 Survival % 92.6 97.7 90.7 94.0 93.6 95.1	10.0 2.0 15.0 8.0 9.0 7.0	Foot abscess be Ranking formula Lamb deaths:	eing the major cause of de a takes into account both							
Total Twin Ewes Total Area Stocking Rate Paddock East Stirrup 1 East Stirrup 2 East Stirrup 2 West Stirrup 1 West Stirrup 2 West Stirrup 3 Phalaris	1150 162.1 7.09 Area/Ha 5 5 5 5 5 5 5 5 5	No Ewes 34 44 43 42 39 41 42	No Foetuses 68 88 86 84 78 82 84	Lambs Marked 63 86 78 79 73 69	1158 Survival % 92.6 97.7 90.7 94.0 93.6 95.1 82.1	10.0 2.0 15.0 8.0 9.0 7.0 22.0	Ranking formula Lamb deaths: - Exposure (poe	ring the major cause of do a takes into account both or weather, too small)							
Total Twin Ewes Total Area Stocking Rate Paddock East Stirrup 1 East Stirrup 2 East Stirrup 3 West Stirrup 1 West Stirrup 2 West Stirrup 3 Phalaris Under Stip	1150 162.1 7.09 Area/Ha 5 5 5 5 5 5 5 7.1 14.7	No Ewes 34 44 43 42 39 41 42 121	No Foetuses 68 88 86 84 78 82 82 84 242	Lambs Marked 63 86 78 79 73 69 211	1158 Survival % 92.6 97.7 90.7 94.0 93.6 95.1 82.1 87.2	10.0 2.0 15.0 8.0 9.0 7.0 22.0	Ewe deaths: pre Foot abscess be Ranking formula Lamb deaths: - Exposure (poc - Dead at Birth - Predation	eing the major cause of do a takes into account both or weather, too small)							
Total Twin Ewes Total Area Stocking Rate Paddock East Stirrup 1 East Stirrup 2 East Stirrup 3 West Stirrup 3 West Stirrup 3 West Stirrup 3 Under Stip Under Stip Vista 1	1150 162.1 7.09 Area/Ha 5 5 5 5 5 5 5 5 7.1 14.7 6.6	ha No Ewes 34 44 43 42 39 41 121 42	No Foetuses 68 88 86 84 78 82 84 242 84	Lambs Marked 63 86 78 79 73 78 69 211	1158 Survival % 92.6 97.7 90.7 94.0 93.6 95.1 82.1 87.2 90.5	10.0 2.0 15.0 8.0 9.0 7.0 22.0 19.0	Ranking formula Lamb deaths: - Exposure (poe	eing the major cause of do a takes into account both or weather, too small)							
Total Twin Ewes Total Area Stocking Rate Paddock East Stirrup 1 East Stirrup 1 East Stirrup 3 West Stirrup 3 West Stirrup 2 West Stirrup 3 Phalaris Under Sip Vista 1 Vista 2	1150 162.1 7.09 Area/Ha 5 5 5 5 5 5 5 7.1 14.7 6.6 6.6	ha No Ewes 34 44 43 42 39 41 42 121 42 76	No Foetuses 68 88 86 84 78 82 84 242 84 152	Lambs Marked 63 86 78 79 73 78 69 211 76 140	Survival % 92.6 97.7 90.7 94.0 93.6 95.1 82.1 87.2 90.5	10.0 2.0 15.0 8.0 9.0 7.0 22.0 19.0 16.0	Ewe deaths: pre Foot abscess be Ranking formula Lamb deaths: - Exposure (poc - Dead at Birth - Predation	eing the major cause of do a takes into account both or weather, too small)							
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Total Twin Ewes Total Area Stocking Rate Paddock East Stirrup 1 East Stirrup 2 East Stirrup 3 West Stirrup 2 West Stirrup 2 West Stirrup 3 Under Stip Vista 1 Vista 2 Vista 2 Vista 3 Koala	1150 162.1 7.09 Area/Ha 5 5 5 5 5 5 5 7.1 14.7 6.6 6.6 6.6	ha No Ewes 34 44 43 42 39 41 42 121 42 76 38 102 36 55	No Foetuses 68 88 86 84 78 82 84 242 242 84 152 76 204 72	Lambs Marked 63 86 78 79 73 78 69 211 76 140 70 186 66 105	1158 Survival % 92.6 97.7 90.7 94.0 93.6 95.1 82.1 87.2 90.5 92.1 91.2 91.7 95.5	10.0 2.0 15.0 8.0 9.0 7.0 22.0 16.0 11.0 11.0 14.0 13.0 6.0	Ewe deaths: pre Foot abscess be Ranking formula Lamb deaths: - Exposure (poc - Dead at Birth - Predation	eing the major cause of do a takes into account both or weather, too small)							
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Total Twin Ewes Total Area Stocking Rate Paddock East Stirrup 1 East Stirrup 2 East Stirrup 2 East Stirrup 3 West Stirrup 3 West Stirrup 3 West Stirrup 3 Phalaris Under Stip Vista 1 Vista 2 Vista 3 Koala Opp Bald Hill Bridge 1 Bridge 2 Bridge 3 Bridge 3 Bridge 3 Schoffield East	1150 162.1 7.09 Area/Ha 5 5 5 5 5 5 7.1 14.7 6.6 6.6 6.6 14 7 7.5 7.5 7.5 7.5 7.5 7.1	ha No Ewes 34 44 43 42 39 41 42 76 38 102 36 55 56 52 36 61	No Foetuses 68 88 86 84 78 82 84 242 76 204 72 110 1112 104 72	Lambs Marked 63 86 78 79 73 78 69 211 76 140 70 156 66 105 111 101 69	1158 Survival % 92.6 97.7 90.7 94.0 93.6 95.1 82.1 87.2 92.1 92.1 91.2 91.7 95.8 86.1	10.0 2.0 15.0 8.0 9.0 7.0 22.0 15.0 16.0 11.0 11.0 14.0 13.0 6.0 1.0 4.0 5.0 21.0	Ewe deaths: pre Foot abscess be Ranking formula Lamb deaths: - Exposure (poc - Dead at Birth - Predation	eing the major cause of do a takes into account both or weather, too small)							
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SUMMARISE RESULTS & MAKE CHANGES

Ewe Lmb Twin	484	968	0	0.0%	1.13							
Ewe Lmb Single		288	0	0.0%	0.69			F H	lana di seta a lanak	in a Don and		
Late Twins		346	0	0.0%	2.34			Ewe Mortality: Data taken during lambing. Pre and post lambing can incurre an extra .3% mortality in				
Triplets		249	102	41.0%	0			ewes and up to 2% in la	ewes and up to 2% in lamb mortality to weaning.			
Total		1851	102	5.5%	5.64							
Total	1020	1051	102	3.370	3.04							
		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		Ewe Mort.						
	June Tw		2300	2109	91.7%	1.59	17					
	June S		1112	1061	95.4%	0.45	5					
	Aug Tw		1888	1647	87.2%	2.05	18					
	Aug S		640	599	93.6%	0.94	6					
	Totals	3846	5940	5416	91.2%		46					
	Totals											

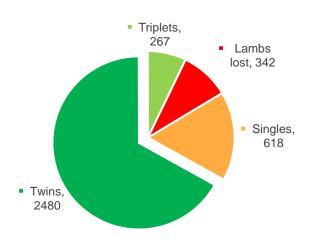
SUMMARISE RESULTS & MAKE CHANGES



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

SUMMARISE RESULTS & MAKE CHANGES



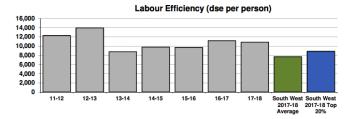


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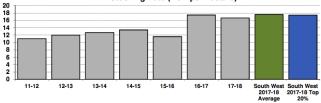
2019 PARADOO PRIME SCANNING

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%

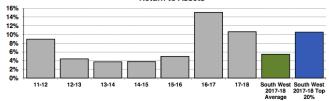
WHOLE FARM DATA



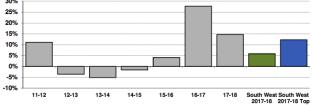
Stocking Rate (DSE per hectare)



Return to Assets



Return to Equity

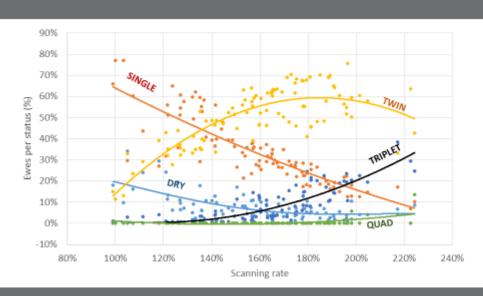


Average

20%

2018 PARADOO PRIME SCANNING

Scanning rates



Triplets- Our management to date

Paddock	НА	No	ewe 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?

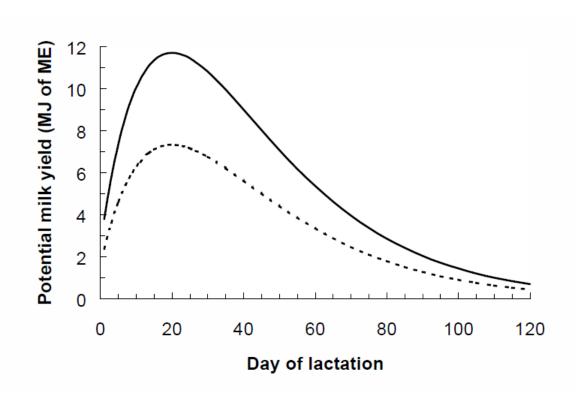
THE BENEFITS OF THIS SYSTEM?

- 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 UTLISE KNOWN TECHNOLOGY

Ewe Recovery-Weaning date

Weaning on time for Ewe Recovery



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