









	Req	Availability	Deficiency	% Deficiency
		Milli	on tonnes	
Total Digestible Nutrient (TDN)	90.4	68.7	21.7	24%
Digestible Crude Protein (DCP)	10.9	6.76	4.14	38 %

ICARDA	FEEDING OPT	IONS
•	1 st Fodder	(51%)
	2 nd Crop residues	(35%)
	3rd Concentrate Oil cakes , Meals (2 %) Cereal by Products (6%	(8%)
0	Grazing	(3%)
	Non conventional feeds (Sugar cane and Corn by products, Vegetable market wastes). &	(3%)





	RDA			
Su	mmer fodders		2n	Varieties
1.	SORGHUM	(Sorghum bicolor L.)	20	JS-2002
2.	PEARL MILLET	(Pennisetum americanum)	14	18-BY
3.	MAIZE	(Zea mays)	20	S-2000
4.	COWPEAS	(Vigna ungiculata)	22	CP-95
	Winter fodde	rs		
1	BERSEEM	(Trifolium alexandrinum)	16	B. Pacchati
2	OATS	(Avena sativa)	42	S-2000
	Fodders for lea	n period		
1	MAIZE (multiple pl	lanting)		
2	SUDAN GRASS x s (Multicut)	SORGHUM (Sorghum sudanenses) x Sorghum bicolor L.)		Sadabahar
3.	MOTTGRASS	(Napier purpureum)	28	













COMPARISON OF INCOME FROM FODDER CROPS mparison of income per hac. received from different fodder crops in chak No.74/SB

Сгор	Total Income (Rs.000)	Exp. (Rs.000)	Net. Income (Rs.000)	Percent increase
Berseem Improved	60	18	42	100
Berseem (local)	38	17	21	
Oats Improved	23	17	6	50
Oats local	20	16	4	
Berseem Improved	60	18	42	
Berseem + Oats Improved	64	20	44	4.76



Comparison of income per hac. received from different fodder crops in chak No.105/SB

Сгор	Total Income (Rs.000)	Exp. (Rs.000)	Net. Income (Rs.000)	Percent increase
Berseem Improved	43	16	27	68.75
Berseem (local)	31	15	16	
Oats Improved	25	17	8	60.00
Oats local	18	13	4	
Berseem Improved	43	16	27	
Berseem + Oats Improved	49	20	29	7.40

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Comparison of income per hac. received from different fodder crops in chak No.74/SB

Сгор	T. Income (Rs.000)	Exp. (Rs.000)	Net. Income (Rs.000)	Percent increase
Berseem	60	18	42	
Berseem GFY + Seed	88	18	70	66.66
Oats	23	17	6	
Oats seed	42	17	25	316.66



















	-			
Expense /ha	GFY t/ha	Gross Income /Ha	Net	
31369 30875	169	126750	95381	
29887	225	168750	138863	
30875	66	75000 49500	52325 18625	
				Net Income per hectare in sole and mixed crops at chak 105/SB sale in town market
				Berseem Cats Berseem+ Berseem Catslocal Cats local
	Expense /ha 31369 30875 29887 22675	in T Expense GFY /ha 21369 169 30875 106 29887 225 22675 100	Expense /ha GFY t/ha Gross income /Ha 31369 169 126750 30875 106 79500 29887 225 168750 22675 100 75000	Expense /haGFY thaIncome /HaNet313691691267509538130875106795004862529887225168750138863226751007500052325





	verage Green fodo eld in Summer foc ops		120 100 92 60 - 40 - 20 - 7	4 98	DER YIELD IN SUMMER CROPS
Treatm ents	Сгор	Chak 74/SB GFY tha ⁻	Chak 105/SB GFY t ha ⁻¹	Av. Of both villages t ha ⁻¹	
T1	Sorghum + pearl millet + maize + cowpeas	92	104	98	at both villages
T2	Sorghum + pearl millet	74	78	76	(74/SB and
Т3	Maize alone	66	72	69	105/SB)
Τ4	Sorghum (farmer's variety and farming practice)	42	52	47	

					Green fodder yield in lean perion
	green f in lean		-	150 (e 100 (y)) (y) (y) (y) (y) (y) (y) (y) (y) (y	¹⁴¹ 133 ²⁶² 67 ⁷⁴ 79.5 ³⁵ 28 31.5 ¹ 2 ³⁵ 28 31.5 ¹ 2 ³⁵ 28 31.5
					Chak No. 74/SB Chak No. 74/SB Av. In both villages
Treatmen ts	Crops	Green foo	dder yield (t/ha)		
		Chak No. 74/SB	Chak No. 105/SB	Av. In both villages	
T1	Maize	72	62	67	In chak No. 74/SB and 105/SB
T2	S-S hybrid	85	74	79.5	
Т3	Mott grass	125	141	133	
T4	Sorghum local	35	28	31.5	

 income from green fodder sold to the livestock holders 							
Tr.	Сгор	Rate /kanal	GFY/ha	Income/ha	Exp/ha	Net income/ ha	Income/ 45 days
T1	Maize	2000/-	166 (45 d)	39520/-	17290/-	22230/-	22230/-
T2	S-S hybrid	3200/-	196 (120 d)	63232/-	19760/-	43472/-	21736/-
T3	Mott grass	1250/-	328 (120 d)	24700/-	9880/-	14820/-	7410/-
T4	Local sorghum	600/-	78 (45 d)	11856/-	9880/-	1976/-	1976/-















SEED PRODUCTION								
DA								
:	Seed Produce	d At Farmers	Field at chak I	No.74/SB				
S.No.	Сгор	Area sown	Seed produced	Seed yield/Acre	Seed sufficien for			
1	Berseem	2 acre	320 kgs	160 kgs	53 acres			
2	Oats	2 acre	2200 kgs	1100 kgs	69 acres			
S	eed Produ	ced At Farr	ners Field a	at chak No.10	05/SB			
S.No.	Сгор	Area sown	Seed produced	Seed yield/Acre	Seed sufficient			
1	Berseem	2 acre	440 kgs	220 kgs	73 acres			
2	Oats	2 acre	2600 kgs	1300 kgs	81 acres			

RDA						
S.No.	Сгор	Rate/kg	Seed Yield/ha	Income/ha	Exp/ha	Net incomeha
1	Berseem	100/-	395 kgs	39520/- (from seed) 69160/- (from fodder loca sale)	17043/- I	91637
2	Oats	25/-	2717 kgs	67925/-	17043/-	50882/-
.No.	Crop	ncome f	-	at chak No.10	5/SB Expenditure/ ha	Net income/ha
	Berseem 100/- 543 kgs		543 kgs	54340/(from seed) 61256/-(from fodder local sale)	17043/-	98553
		25/-	3211 kgs	80275/-	17043/-	63232

Сгор	Seed yield/ Acre at chak 74/SB	Seed yield/Acre at chak 105/SB
Sorghum	430 kgs	320 kegs
Pearl millet	480 kgs	270 kegs
Maize	1000 kgs	780 Kgs
Cowpeas	600 kgs	450 Kgs







ICARDA	<u>No. 74SB</u>			
	Farme	rs Buffallow	Cow	
T1	7	15	8	
T2	8	10	7	
Т3	7	7	6	
T4	7	5	6	
Total	29	37	27 (64)	
Chak No. 1	<u>105</u>			
Fa	rmers	Buffallow	Cows	
T1	6	14	8	
T2	5	7	4	
Т3	5	5	2	
T4	5	4	6	
Total	21	30	20 (50)	

(Improved feed	concentrates)	Cheaper	
Cotton seed cake	15	Cotton seed cake	5
Wheat Bran	20	Moizo gluton	30
Maize gluten	20	Maize gluten	
Maize oil cake	10	Oil	1
viaize oli cake	10	Rice bran	32
Rice Polishing	15	Molsis	15
Molsis	14	DCP	1
DCP	1		
Salt	1	Salt	1
Mustard cake	4	Mustard cake	15



Ш

No. of animals	Feeding group	Milk yield (liters)	Percent increase over local fodder
8	Fodder + Concentrate	6.57	52.0
8	Fodder improved var.	4.90	13.4
8	local Fodder	4.32	-

















Ш.			Average m	ilk yield in buffalos		
Average of buff	je milk yield aloes	0 -				Series1
		2 - 1 - 0		_		
		Т		T2 eatments	T3	
Feeding Group	No. of Animals	Av. Milk Yield (Liters)/ animal	Percent increase over local fodders			
improved fodder + concentrate (balanced)	14	9.30	27.66	<u> </u>	<u> </u>	
Improved Fodder Var. with cotton seed cake	12	7.82	8.16		chak 74/SB	
Local Fodder with cotton seed cake	8	7.23]		



Average of buffa	e milk yiel loes	d	12 10 - 8 - 6 - 4 - 2 - 0 -	9.79	kyiéldő buffalæs (av ő böththevillages) 7.98 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7
Feeding Group	No. of Animals	(Li	lk Yield ters) nimal	Percent increase over lo fodders	local
improved fodder + concentrate (balanced)	29	9.79		33.13	
Improved Fodder Var. with cotton seed cake	28	7.98		8.50	(Av. of both the villages)
Local Fodder with cotton seed cake	18	7.35			



Average milk yield of cow			12 10 -	12			milk yield in cows		
			6	T1		T2 Treatments			
						Series1			
Feeding Group	No. of Animals	A۷	r. Milk Yield (Liters) /animal	0	ent hcrease ver local odders				
improved fodder + concentrate (balanced)	7	10).7		38.42		n chak o. 74/SB		
Improved Fodder Var. with cotton seed cake	9	8.	35		8.02				
Local Fodder with cotton seed cake	5	7.	73						



Verage Fat% a milk of buffa		8 7.5 6.5 6 5.5	7.48	e d milk of bulf alowin Chak 6.65 2 I odder +concentrate Improvec ed cake Local f odder with cott	6.3 3 If odder with
Feeding Group	No. of Animals	Fat % age	Percent increase over local fodders		
improved fodder + concentrate (balanced)	15	7.48	18.73	in Cha	ok No
Improved Fodder Var. with cotton seed cake	16	6.65	4.56		/ SB
Local Fodder with cotton seed cake	10	6.30			

werage Fat% ag milk of buffalo carda			10 8 6 4 2 0	Average Fat%age of milk of buff allowin Chak No. 745B
Feeding Group	No. of Ani mal s	Fat % ag e	Percent increa se over local fodder s	
improved fodder + concentrate (balanced)	14	7.75	24.60	in Chak
Improved Fodder Var. with cotton seed cake	12	6.45	1.13	No. 74 SB
Local Fodder with cotton seed cake	8	6.22		

ICARDA			Aver.	age Fat%age of milk of bulf alow (Av of 1 6.4 6.4 2 Improvedf odder +concentrate Improv cotton seed cake Local f odder with co	6.26 6.26 ed lodder with
Feeding Group	No. of Anima Is	Fat % age	Percent increase over local fodders		
improved fodder + concentrate (balanced)	29	7.62	21.65		
Improved Fodder Var. with cotton seed cake	28	6.40	2.24	(Av of	both
Local Fodder with cotton seed cake	18	6.26		villaç	jesj

Econor Carda			Cha	k No.	74/SB		
Rationing Group	Grou No		Age	Initial Weight (kg)	Improved Weight (kg)	Increase in Weight (kg)	Weight gain/calf/d y(gm)
Fodder Improved	1	2	6	65	79	14	233
	2	3	12	87	119	32	533
Fodder + concentrate	1	3	6	73	88	15	250
concentrate	2	4	12	108	159	51	850
Fodder Local	1	4	6	50	65	15	250
	2	4	12	80	109	29	483

Rationing Group	No. of Calves	Age Month	Expenditure /calf/da y (Rs)	Weight gain/Ca lf/day (kg)	Price @ Rs. 75/kg (lw)	Net Benefit calf/day (Rs.)
Fodder Improved	3	12	20	0.5333	40	20
Fodder + concentrate	4	12	30	0.850	64	34
Fodder Local	4	12	20	0.483	36	16

ARDA			CI	nak N	o. 105,	/SB	
Rationing Group	Group No.		Age	Initial Weig ht	Improved Weight	Increase in Weight	Weight gain/calf/day(gm)
Fodder Improved	1	3	6	63	75.6	12.6	210
	2	3	12	88	128	36	600
Fodder + concentra	1	4	6	76	91	15	250
te	2	3	12	112	152	50	830
Fodder Local	1	4	6	52	65.8	5.8 13.8 230	230
	2	3	12	56	115	30	500



Economic of fattening/benefit of Buffalo calves at Chak no. 105/SB

Rationing Group	No. of Calves	Age Month	Expenditure /calf/da y (Rs)	Weight gain/Ca lf/day (kg)	Price @ Rs. 75/kg (lw)	Net Benefit/ calf/day (Rs.)
Fodder Improved	3	12	20	0.600	45	25
Fodder of + concentrate	3	12	30	0.830	62	32
Fodder Local	3	12	20	0.500	37.5	17.5

calves at Chak no. 74/SB							
Rationing Group	No. of Calves	Age Month	Expenditure/calf/ day (Rs)	Weight gain/Calf/day (kg)	Price @ Rs. 75/kg (lw)	Net Ben efit/ calf/ day (Rs.)	
Fodder Improved	3	12	20	0.400	30.0	10.0	
Fodder of concentrat e	2	12	30	0.700	52.5	22.5	
Fodder Local	3	12	20	0.383	28.72	8.7	


Economic of fattening / benefit of Cow calves at Chak No. 105/SB

Rationing Group	Group No.		Age	Initial Weig ht	Improved Weight	Increase in weight	Weight gain/calf/day (kg)
Fodder Improved	1	2	4	51	69	18	0.300
	2	1	8	89	121	32	0.533
Fodder + concentra	1	2	4	56	76	20	0.333
te	2	3	8	240	288	48	0.800
Fodder Local	1	2	4	46	66	20	0.333
	2	2	8	98	128	30	0.500

ARDA						
Rationing Group	No. of Cal ves	Age Mo nth	Expenditure/calf/day (Rs)	Weight gain/Calf/day (kg)	Price @ Rs. 75/kg (lw)	Net Ben efit/ calf/ day (Rs.)
Fodder Improved	3	12	20	0.533	39.97	19.97
Fodder + concentrat e	2	12	30	0.800	60.00	30
Fodder Local	3	12	20	0.500	37.50	17.50



			Average milk yield in buffaloes					
Average in buffalc	k	10 Priters 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
			1		T2	ТЗ		
					Treatments			
Feeding Group	No. of Anima Is	Av. M Yie (Lit s) /ar al	ter	Percent increase over local fodders	at C	hak No.		
improved fodder + concentrate (balanced)	7	9.15		35.95		'4/ SB		
Improved Fodder Var. with cotton seed cake	9	7.38		9.66				
Local Fodder with cotton seed cake	5	6.73						
(balanced) Improved Fodder Var. with cotton seed cake Local Fodder with								

Verage milk y buffalos					Averag	e milk yield in bu	ffaloes	
			1 - 0	T1	1	T2 Treatments		T3
Feeding Group	No. of Animals	Av.	Milk Yiel d (Lit ers) /ani mal	Percent increa over fodde	local			
improved fodder + concentrate (balanced)	9	8.8	8	2	28.14	at (Chak	No
Improved Fodder Var. with cotton seed cake	7	7.6	5	1	0.39		05/ S	
Local Fodder with cotton seed cake	11	6.9	3					

				Average milk yield in buffaloes					
verage milk yield			- 10 - 9 - 7 - 7 - 5 - 5 - 2 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1						
			0 +	T1		T2 Treatments		T3	
						Series1			
Feeding Group	No. of Anima Is	(L s)	nim	Percent increase over loc fodders					
improved fodder + concentrate (balanced)	16	9.00		31.0	00	_			
Improved Fodder Var. with cotton seed cake	16	7.50		9.1	17		oth th		
Local Fodder with cotton seed cake	16	6.87				vill	ages		

				Average milk yield in buffaloes					
icarda									
			0 T1	T2 Treatments @Series1	T3				
Feeding Group	No. of Anim als	Av. Milk Yield (Liters)/ animal	local						
improved fodder + concentrate (balanced)	8	10.3	32.9						
Improved Fodder Var. with cotton seed cake	6	8.45	9.03	in chał 105/					
Local Fodder with cotton seed cake	4	7.75		105/	OD				

			10 -		Average mill	k yield in co	ows
Average milk yield			- 9 - 8 - 7 - 6 - 5 - 6 - 5 - 2 - 1 - 0 - 1 - 0 - 1 - 0 - 1 - 0 - 1 - 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
			0+	T1		T2 Treatments	Т3
Feeding Group	No. of Anim als	(s /	Milk 'ield Liter) anim	Percent increase over local fodders			
improved fodder + concentrate (balanced)	7	8.65		28.72			
Improved Fodder Var. with cotton seed cake	5	7.30		8.63	i		nak No.
Local Fodder with cotton seed cake	6	6,72				7	4/SB

icarda					Average milk yield in	i cows
			0 -	T1	T2 Treatments	T3
Feeding Group	No. of Animal s	Av. Milk Y (Liters) /animal	ield	Percent increase over local fodders		
improved fodder + concentrate (balanced)	15	9.53		33.66		
Improved Fodder Var. with cotton seed cake	11	7.93		11.22	(A)	/ of both illages)
Local Fodder with cotton seed cake	10	7.13			V	illages)



Verage Fat% age				Average fat %age in buffalo milk				
ICARDA			• 8 • 9 • 9 • 9 • 9 • 9 • 9 • 9 • 9 • 9 • 9					
			Ū	1	2 Treatment	3		
					Series1			
Feeding Group	No. of Animals	Fat % age		ercent increase over local fodders				
improved fodder + concentrate (balanced)	9	7.84		28.11	in C	Chak No.		
Improved Fodder Var. with cotton seed cake	7	6.55		7.03		05/ SB		
Local Fodder with cotton seed cake	11	6.12]			



	[Average milkyield in buffaloes					
	age milk uffaloes	yield	12 10 8 8 6 7 4 2 0						
				1	2 3 Treatment				
Feeding Group	No. of Animal s	Av. Yield (Liter /anin	rs)	Percent increase over local fodders	Series1				
improved fodder + concentrate (balanced)	12	10.2		32.99	in chak No.				
Improved Fodder Var. with cotton seed cake	11	8.65		12.78	74/SB				
Local Fodder with cotton seed cake	15	7.67							



				Average milkyield in buffaloes
icarda			sea s a b b b c c c c c c c c	2 3 Treatment
Feeding Group	No. of Anima Is	Av. Milk Yield (Liters) /animal	Percent increase over local fodders	
improved fodder + concentrate (balanced)	25	9.84	32.79	
Improved Fodder Var. with cotton seed cake	22	8.53	15.11	(Av of both villages)
Local Fodder with cotton seed cake	29	7.41		



icarda	lk yield		7.5 7- 6.6 5.5 1	Average milkyield incows
Feeding Group	No. of Anima Is	Av. Milk Yield (Liter s) /anim al	Percent increase over local fodders	
improved fodder + concentrate (balanced)	7	7.25	14.17	in chak No.
Improved Fodder Var. with cotton seed cake	6	6.35	3.76	105/SB
Local Fodder with cotton seed cake	6	6.12		

Ш			Average milkyield incows				
cow ICARDA			8 6 4 2 0				
				1	Z 3 Treatment		
					Series1		
Feeding Group	No. of Animal s	Av. Milk Yie (Liters) /animal	ld	Percent increase over local fodders			
improved fodder + concentrate (balanced)	15	7.49		22.59			
Improved Fodder Var. with cotton seed cake	12	6.45		5.56	(Av of bot villages)	h	
Local Fodder with cotton seed cake	13	6.11					

Average of milk of			Average fat %age buffalo milk				
			5.5	2 3 Treatment			
Feeding Group	No. of Animals	Fat % age					
improved fodder + concentrate (balanced)	12	7.15	17.21				
Improved Fodder Var. with cotton seed cake	11	6.35	4.09	in Chak No. 74/ SB			
Local Fodder with cotton seed cake	15	6.10		74/ SD			

Average Fat% age				Average fat %age buffalo milk					
of milk of buffalos									
			- 6 - 4 % - 2 F - 0 - 0						
				1		2 Treatment	3		
						Series1			
Feeding Group	No. of Animals	Fat	% age	Percent increase over loo fodders	cal				
improved fodder + concentrate (balanced)	13	7.5	0	21.9	.95				
Improved Fodder Var. with cotton seed cake	11	6.2		1.4	.46		Chak No.		
Local Fodder with cotton seed cake	14	6.15					05/ SB		

Average Fat% age of milk of buffalos			Average fat %age buffalo milk			
			5.5 1	2 3 Treatment		
Feeding Group	No. of Animal s	Fat % ag e	Percent increase over local fodders			
improved fodder + concentrate (balanced)	25	7.33	19.77			
Improved Fodder Var. with cotton seed cake	22	6.30	2.94	(Av of both villages)		
Local Fodder with cotton seed cake	29	6.12		villages)		

			Average milkyield in buffaloes				
Average milk yield of buffaloes			12 10 8 6 4 2 0	1	2 Treatment	3	
					Series1		
Feeding Group	No. of Animal s	Av. Yield (Liter /anin	rs)	Percent increase over local fodders			
improved fodder + concentrate (balanced)	12	8.2		17.42			
Improved Fodder Var.HAY MIXED with cotton seed cake	11	7.65		11.51			
Local Fodder with cotton seed cake	15	6.86					



