

CASH FLOW - BEEF COW/CALF INTEGRATION IN OIL PALM ESTATES.

1. HERD FLOW

Herd flow for 100 Breeders (cows) in 400 Hectares
 Calves (<12 mth.) Mortality Rate 10% or less / Year.
 Calves (12 - 24 mth.) Mortality Rate 5% or less /Year.
 Adults Mortality Rate 2% or less /Year.
 Calving Percentage = 80 - 90 %.
 Percentage Cow Culling Percent = 10 - 15 %.
 Replacement Heifers Comes From Own Herd

Particulars	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Breeders		100	100	100	100	100	100	100	100	100	100
Bulls		5	5	5	5	5	5	5	5	5	5
Female Calves (<6 mth.)		18	18	18	18	18	18	18	18	18	18
Male Calves. (<6 mth.)		18	18	18	18	18	18	18	18	18	18
Female Calves (6 - 12 mth.)		17	26	26	26	26	26	26	26	26	26
Male Calves (6 - 12 mth.)		17	26	26	26	26	26	26	26	26	26
Female Yearling (12 - 18 mth.)		0	17	23	23	23	23	23	23	23	23
Heifers (18 - 30 mth.)		0	9	12	12	12	12	12	12	12	12
Male (12 - 30 mth.)		0	26	35	35	35	35	35	35	35	35
Cull Breeders		0	0	10	10	10	10	10	10	10	10
Heifers Sold		0	0	14	23	23	23	23	23	23	23
Male Sold		0	0	26	35	35	35	35	35	35	35
Total Stock		175	245	263	263	263	263	263	263	263	263
Cull Breeders Sale @RM4.00/kg (300kg/head)		0	0	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Heifers Sale @RM5.00/kg (250kg/Head)		0	0	17,500	28,750	28,750	28,750	28,750	28,750	28,750	28,750
Male Sale @RM4.70/kg (250kg/Head)		0	0	30,550	41,125	41,125	41,125	41,125	41,125	41,125	41,125
Total Sale		0	0	60,050	81,875	81,875	81,875	81,875	81,875	81,875	81,875
Breeders Cost @RM5.90/kg (300kg/head)	150000										
Bull Cost @RM6.30/kg. (350kg/head)	10500										
Livestock Tithe (for muslim only)		5,141	7,139	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726
Electric Fencing Cost RM 1500/Set (3 Set)	4500										
Cost For Control Yard	10000										
Repair and Maintenance Cost RM50.00/mth.		600	600	600	600	600	600	600	600	600	600
Drugs and Treatment Costs RM100.00.mth.		1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
Utility Cost (water & POL) RM40.00/mth.		480	480	480	480	480	480	480	480	480	480
Interest on 3F Loan RM 175,000@4%Yr at Yearly Rest		7,000	6,125	5,250	4,375	3,500	2,625	1,750	875	0	0
3F Loan Principle Payment (12.5% of Principle/Year)		21,875	21,875	21,875	21,875	21,875	21,875	21,875	21,875	0	0
Two stockman @RM700.00/mth. Increment RM50.00/Yr.		16,800	18,000	19,200	20,400	21,600	22,800	24,000	25,200	26,400	27,600
Total Overhead and Expenses.	175,000	53,096	55,419	56,331	56,656	56,981	57,306	57,631	57,956	36,406	37,606
Saving From Herbicide Reduction RM30/- to 50/- /Ha/Yr		12,000	12,000	14,000	14,000	16,000	16,000	18,000	18,000	20,000	20,000
Cash Balance/Year.		(41,096)	(43,419)	17,719	39,219	40,894	40,569	42,244	41,919	65,469	64,269
Value of Stock		195,500	225,500	237,500	237,500	237,500	237,500	237,500	237,500	237,500	237,500
Cumulative Profit and Loss		(35,955)	(84,515)	(66,796)	(27,577)	13,317	53,886	96,130	138,049	203,518	267,787
Profit and Loss per Breeder /Year		(411)	(434)	177	392	409	406	422	419	655	643
Profit and Loss per Hectar Land/Year		(103)	(109)	44	98	102	101	106	105	164	161

IRR = 23%
 NPV Discounted at 10% pa = 170,418
 BCR = 1.05