

ITEM	WEIGHT EACH	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR COST
1. GROSS RECEIPTS						
MILK, GRADE A	150.00	CWT.	11.820	160.440	284460.12	
CALVES, BULL	1.00	HEAD	54.100	75.000	4057.50	
CALVES, HEIFER	1.00	HEAD	100.190	75.000	7514.25	
TOTAL GROSS INCOME PER CWT.					296031.87	12.3008
2. VARIABLE COSTS						
FEED COSTS						
PASTURE		HEAD	1.000	1315.500	1315.50	
DRY ROUGHAGE		TON	91.820	468.000	42971.76	
WET ROUGHAGE		TON	17.090	1746.000	29839.14	
CONCENTRATES		TON	134.290	504.000	67682.16	
TOTAL FEED COST					141808.56	
OTHER COSTS						
MILKERS		HEAD	7.350	1800.000	13230.00	
HIRED LABOR		HEAD	8.760	1800.000	15768.00	
FAMILY MILKR		HEAD	0.830	1800.000	1494.00	
FAMILY LABOR		HEAD	2.460	1800.000	4428.00	
REPLACE. HEIFER		HEAD	209.090	33.000	6899.97	
MANURE HAULING		HEAD	9.000	150.000	1350.00	
TAXES & INS.		HEAD	19.250	150.000	2887.50	
MARKETING		CWT.	0.480	24066.000	11551.68	
DISCL EXPENSE		HEAD	17.060	1800.000	30708.00	
TRACTORS (FUEL-LUBE-REP)		DOL.			4507.89	
MACHINERY (FUEL-LUBE-REP)		DOL.			1422.10	
EQUIPMENT (FUEL-LUBE-REP)		DOL.			183.98	
LABOR: TRACTOR & MACHINERY		HRS.	3.750	1031.49	3868.08	
INTEREST ON OPER. CAP.		DOL.	0.12000	20008.98	2401.08	
TOTAL VARIABLE COSTS					242508.83	
VAR. COST PER CWT.						10.0768
3. INCOME ABOVE OPERATING COSTS					53523.04	
INCOME PER CWT.						2.2240
4. OVERHEAD						
PERSONAL PROPERTY TAXES					381.23	
REAL PROPERTY TAXES					2623.30	
TOTAL OVERHEAD					3004.53	
OVERHEAD COST PER CWT.						0.1248
TOTAL CASH EXPENSE					245513.37	
CASH EXPENSE PER CWT.						10.2017
5. INCOME ABOVE CASH COSTS					50518.50	
INCOME PER CWT.						2.0992
6. FIXED COSTS						
CAPITAL & INTEREST						
INT. ON LIVESTOCK CAPITAL		DOL.	0.12000	199691.50	23962.98	
INT. ON EQUIPMENT CAPITAL		DOL.	0.12000	80970.55	9716.47	
INT. ON MACHINERY CAPITAL		DOL.	0.12000	10758.72	1291.05	
INT. ON FARMSTEAD		DOL.	0.12000	120000.00	14400.00	
TOTAL INTEREST					49370.49	
DEPRECIATION						
DEPR. ON LIVESTOCK		DOL.			687.40	
DEPR. ON EQUIPMENT		DOL.			7334.66	
DEPR. ON MACHINERY		DOL.			1374.10	
TOTAL DEPRECIATION					9396.16	
TOTAL FIXED COSTS					58766.65	
FIXED COSTS PER CWT.						2.4419
7. TOTAL COSTS					304280.02	
TOTAL COST PER CWT.						12.6436
8. NET RETURNS					-8248.15	
NET RETURNS PER CWT.						-0.3427

REPLACEMENT COST = (FRESH COW COST - CULL COW INCOME) ÷ REPLACEMENT RATE
 WALK THROUGH BARN

UPDATED 9/13/80

DATE PRINTED: 09/13/80 CYCLE LENGTH(MOS.): 1 PRODUCTION UNIT 24066.00 CWT.

1980 default data

UC Cooperative Extension

CASH FLOW & INVESTMENT SUMMARY FOR DAIRY ANIMALS
COMMERCIAL DAIRY PRODUCTION IN SOUTH BAY PRODUCTION AREA 1979-80
 150 COW HERD 16,044 LBS/HD AVE. ANNUAL PRODUCTION
 22.5Z TURNOVER RATE

BUDGET RECORD NUMBER 479

		MONTHLY SUMMARY OF RECEIPTS AND EXPENSES											
YEAR UNIT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

TOTAL RECEIPTS	1 DOL.	24631.	24785.	24631.	24631.	24631.	24785.	24631.	24631.	24631.	24785.	24631.	24631.
OPERATING INPUTS:													
PASTURE	1 DOL.	0.	108.	0.	137.	92.	89.	205.	245.	255.	114.	72.	0.
DRY ROUGHAGE	1 DOL.	3581.	3581.	3581.	3581.	3581.	3581.	3581.	3581.	3581.	3581.	3581.	3581.
WET ROUGHAGE	1 DOL.	2487.	2487.	2487.	2487.	2487.	2487.	2487.	2487.	2487.	2487.	2487.	2487.
CONCENTRATES	1 DOL.	5640.	5640.	5640.	5640.	5640.	5640.	5640.	5640.	5640.	5640.	5640.	5640.
MILKERS	1 DOL.	1103.	1103.	1103.	1103.	1103.	1103.	1103.	1103.	1103.	1103.	1103.	1103.
HIRED LABOR	1 DOL.	1314.	1314.	1314.	1314.	1314.	1314.	1314.	1314.	1314.	1314.	1314.	1314.
FAMILY MILKR	1 DOL.	125.	125.	125.	125.	125.	125.	125.	125.	125.	125.	125.	125.
FAMILY LABOR	1 DOL.	369.	369.	369.	369.	369.	369.	369.	369.	369.	369.	369.	369.
REPLACE. HEIFER	1 DOL.	627.	418.	627.	627.	627.	627.	418.	627.	627.	627.	627.	418.
MANURE HAULING	1 DOL.	0.	0.	446.	0.	0.	0.	459.	0.	0.	0.	446.	0.
TAXES & INS.	1 DOL.	722.	0.	0.	722.	0.	0.	722.	0.	0.	722.	0.	0.
MARKETING	1 DOL.	963.	963.	963.	963.	963.	963.	963.	963.	963.	963.	963.	963.
MISCL EXPENSE	1 DOL.	2559.	2559.	2559.	2559.	2559.	2559.	2559.	2559.	2559.	2559.	2559.	2559.
TRACTOR FUEL COST	1 DOL.	207.	207.	207.	207.	207.	207.	207.	207.	207.	207.	207.	207.
TRACT REPAIR COST	1 DOL.	138.	138.	138.	138.	138.	138.	138.	138.	138.	138.	138.	138.
TRACTOR LUBE COST	1 DOL.	31.	31.	31.	31.	31.	31.	31.	31.	31.	31.	31.	31.
MACHRY FUEL COST	1 DOL.	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.
MACHRY LUBE COST	1 DOL.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.
MACH REPAIR COST	1 DOL.	98.	98.	98.	98.	98.	98.	98.	98.	98.	98.	98.	98.
EQUIP REPAIR COST	1 DOL.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.	15.
MACHINERY LABOR	1 DOL.	322.	322.	322.	322.	322.	322.	322.	322.	322.	322.	322.	322.
INT. ON OPER CAP.	1 DOL.	200.	200.	200.	200.	200.	200.	200.	200.	200.	200.	200.	200.

*** TOTALS OF THE ABOVE ITEMS ARE LISTED IN THE VARIABLE COST SECTION ON THE REVERSE SIDE ***

1 DOL.	20520.	19698.	20244.	20657.	19890.	19887.	20976.	20043.	20054.	20634.	20316.	19590.
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		LABOR USE SUMMARY											
		LIVESTOCK INVESTMENT AND COST SUMMARY											
MACHINERY LABOR	1 HOUR	86.	86.	86.	86.	86.	86.	86.	86.	86.	86.	86.	86.

NAME	UNIT	SIZE	INVESTMENT		TOTAL VALUE	COST SUMMARY						
			PURCH PRICE	NO. IN BUDGET		DEPR.	INTEREST	INS/TAXES	TOTAL OWNERSHIP	FUEL & LUBE	REPAIRS	TOTAL OP COSTS
EQUIPMENT												
WALK THROUGH	HEAD	10.	52650.	1.0	52650.00	1895.40	3474.90	526.50	5896.80	0.00	31.59	31.59
MILKING UNIT	UNIT	1.	269.	5.0	1345.00	159.72	84.74	13.45	257.90	0.00	16.81	16.81
3" SS PIPELINE	FEET	1.	10.	60.0	600.00	48.00	43.20	6.00	97.20	0.00	0.00	0.00
VACUUM LINE	FEET	1.	4.	60.0	240.00	19.20	17.28	2.40	38.88	0.00	0.00	0.00
VACUUM PUMP	H.P.	8.	3510.	1.0	3510.00	315.90	231.66	35.10	582.66	0.00	10.53	10.53
MILK PUMP	H.P.	2.	702.	1.0	702.00	63.18	46.33	7.02	116.53	0.00	2.11	2.11
MILK RECEIVER	UNIT	1.	1287.	1.0	1287.00	102.96	92.66	12.87	208.49	0.00	6.44	6.44
WATER HEATER	UNIT	1.	1170.	1.0	1170.00	81.90	91.26	11.70	184.86	0.00	3.51	3.51
REFRIG BULK TANK	GAL.	2000.	18720.	1.0	18720.00	1497.60	1347.84	187.20	3032.64	0.00	37.44	37.44
SILO PIT	UNIT	1.	11115.	1.0	11115.00	444.60	800.28	111.15	1356.03	0.00	0.00	0.00
BULK FEED TANK	TON	30.	3364.	1.0	3364.00	134.56	242.21	33.64	410.41	0.00	1.68	1.68
FD CNVYR MTR AUT	H.P.	5.	2106.	1.0	2106.00	189.54	139.00	21.06	349.60	0.00	21.06	21.06
FEED CONVEYOR	FEET	1.	18.	70.0	1260.00	88.20	98.28	12.60	199.08	0.00	6.30	6.30
HAYBARN W STANCH	SQFT	5400.	21060.	1.0	21060.00	596.70	1453.14	210.60	2260.44	0.00	0.00	0.00
RACH SHED ENCL	SQFT	450.	2750.	1.0	2750.00	61.88	181.50	27.50	270.88	0.00	0.00	0.00
SHOP	SQFT	200.	1404.	1.0	1404.00	31.59	92.66	14.04	138.29	0.00	0.00	0.00
WTR HOLDING TANK	GAL.	12000.	2644.	1.0	2644.00	105.76	190.37	26.44	322.57	0.00	1.32	1.32
20 HP PUMP-WELL	H.P.	20.	4949.	1.0	4949.00	445.41	326.63	49.49	821.53	0.00	4.95	4.95
SUMP PIT	CUFT	450.	2574.	1.0	2574.00	102.96	154.44	25.74	283.14	0.00	0.00	0.00
FLOAT PUMP	UNIT	1.	2340.	1.0	2340.00	300.86	154.44	23.40	478.70	0.00	16.71	16.71
SUMP PUMP 15 HP	UNIT	1.	2574.	1.0	2574.00	330.94	169.88	25.74	526.57	0.00	11.03	11.03
ROTARY AGITATOR	UNIT	1.	1521.	1.0	1521.00	195.56	100.39	15.21	311.15	0.00	10.86	10.86
SPINKLER SYSTEM	FEET	1.	2.	1500.0	2445.00	122.25	183.38	24.45	330.08	0.00	1.63	1.63
LIVESTOCK												
DAIRY COW	HEAD	1.	1310.	150.	196500.00	0.00	23580.00	0.00	23580.00			
DAIRY BULL	HEAD	1.	2455.	2.	4910.00	687.40	382.98	0.00	1070.38			
MACHINERY												
TRACTOR 50 HP			14040.00		14040.00	463.31	555.99	166.80	1186.10	1398.99	889.57	2288.56
TRACTOR 75 HP			17400.00		17400.00	398.11	477.74	143.32	1019.16	1454.95	764.38	2219.32
PICKUP 1/2 TON			9000.00		9000.00	37.64	22.02	5.40	65.06	220.80	85.72	306.52
MIXER WAGON*			6500.00		6500.00	455.15	223.56	62.40	741.12	21.55	1077.39	1098.94
FRONT END LOADR*			2880.00		2880.00	19.88	11.73	3.32	34.93	0.33	16.32	16.65
LAND												
FARMSTEAD	ACRE		3000.00	40.0	120000.00		14400.00	1200.00	15600.00			
TOTALS					513560.00	9396.16	49370.49	3004.53	61771.18	3096.61	3017.36	6113.97

TOTAL PER CWT. 21.33965 0.3904 2.0515 0.1248 2.5667 0.1287 0.1254 0.2541
 REPLACEMENT COST = (FRESH COW COST-CULL COW INCOME) * REPLACEMENT RATE
 WALK THROUGH BARN

UPDATED 9/13/80

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 479
 COMMERCIAL DAIRY PRODUCTION IN SOUTH BAY PRODUCTION AREA 1979-80
 150 COW HERD 16,044 LBS/HD AVE. ANNUAL PRODUCTION
 22.5% TURNOVER RATE

FUEL USED IN GALLONS PER HOUR

TRACTOR 50 HP 2.400
 TRACTOR 75 HP 3.600
 PICKUP 1/2 TON 4.000

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
PICKUP 1/2 TON	0.133	
MIXER WAGON*	0.660	TRACTOR 75 HP
FRONT END LOADR*	0.198	TRACTOR 75 HP

FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYPE
TRACTOR 50 HP	96.000	96.000	96.000	96.000	96.000	96.000	96.000	96.000	96.000	96.000	96.000	96.000	1152.000	DIESEL
PICKUP 1/2 TON	13.333	13.333	13.333	13.333	13.333	13.333	13.333	13.333	13.333	13.333	13.333	13.333	160.000	GAS
MIXER WAGON*	84.480	84.480	84.480	84.480	84.480	84.480	84.480	84.480	84.480	84.480	84.480	84.480	1013.760	DIESEL
FRONT END LOADR*	25.344	25.344	25.344	25.344	25.344	25.344	25.344	25.344	25.344	25.344	25.344	25.344	304.128	DIESEL
TOTALS	219.157	219.157	219.157	219.157	219.157	219.157	219.157	219.157	219.157	219.157	219.157	219.157	2629.888	

GALLONS FUEL BY TYPE
 160.00 GAS
 0.00 LP
 2469.89 DIESEL
 7.00 N. GAS
 0.00 KWRS

FUEL TYPES
 1=GAS
 2=L.P.
 3=DIESEL
 4=N. GAS
 5=ELEC.

MACHINERY OPERATIONS SUMMARY

BUDGET RECORD NUMBER 479

COMMERCIAL DAIRY PRODUCTION IN SOUTH BAY PRODUCTION AREA 1979-80

150 COW HERD 16,044 LBS/HD AVE. ANNUAL PRODUCTION

22.5% TURNOVER RATE

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOUR S	MACHINE HOUR S	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
TRACTOR 50 HP		3 FEB	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 FEB	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 FEB	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 FEB	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 MAR	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 MAR	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 MAR	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 MAR	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 APR	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 APR	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 APR	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 APR	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 MAY	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 MAY	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 MAY	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 MAY	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 JUNE	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 JUNE	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 JUNE	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 JUNE	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 JULY	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 JULY	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 JULY	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 JULY	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 AUG	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 AUG	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 AUG	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 AUG	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 SEPT	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 SEPT	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 SEPT	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 SEPT	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 OCT	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 OCT	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 OCT	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 OCT	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 NOV	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 NOV	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 NOV	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 NOV	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 DEC	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 DEC	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 DEC	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 DEC	*****	7.744	6.400	44.07	22.51
TRACTOR 50 HP		3 JAN	40.00	48.000	40.000	*****	89.86
PICKUP 1/2 TON		13 JAN	*****	4.000	3.333	25.54	5.42
MIXER WAGON*	4,	46 JAN	*****	25.813	21.333	*****	*****
FRONT END LOADR*	4,	52 JAN	*****	7.744	6.400	44.07	22.51

TOTALS ***** ***** ***** *****
 REPLACEMENT COST = (FRESH COW COST-CULL COW INCOME) * REPLACEMENT RATE
 WALK THROUGH BARN

UPDATED 9/13/80

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 479
 COMMERCIAL DAIRY PRODUCTION IN SOUTH BAY PRODUCTION AREA 1979-80
 150 COW HERD 16,044 LBS/HD AVE. ANNUAL PRODUCTION
 22.5% TURNOVER RATE

INCOME ABOVE VARIABLE COSTS

WHEN THE PRICE OF MILK, GRADE A		RANGES FROM		10.62 TO		13.02	
AND THE QUANTITY OF MILK, GRADE A		RANGES FROM		19252.00 TO		28880.00	
PRICE OF MILK, GRADE A							
		10.62	11.22	11.82	12.42	13.02	

QUANTITY OF MILK, GRADE	19252.00	-26480.84	-14929.64	-3378.44	8172.76	19723.96	
	21659.00	-918.50	12076.90	25072.30	38067.70	51063.10	
	24066.00	24643.84	39083.44	53523.04	67962.64	82402.24	
	26473.00	50206.18	66089.98	81973.78	97857.58	113741.38	
	28880.00	75768.52	93096.52	110424.52	127752.52	145080.52	

INCOME ABOVE ALL CASH COSTS

WHEN THE PRICE OF MILK, GRADE A		RANGES FROM		10.62 TO		13.02	
AND THE QUANTITY OF MILK, GRADE A		RANGES FROM		19252.00 TO		28880.00	
PRICE OF MILK, GRADE A							
		10.62	11.22	11.82	12.42	13.02	

QUANTITY OF MILK, GRADE	19252.00	-29485.38	-17934.18	-6382.98	5168.22	16719.42	
	21659.00	-3923.04	9072.36	22067.76	35063.16	48058.56	
	24066.00	21639.30	36078.90	50518.50	64958.10	79397.70	
	26473.00	47201.64	63085.44	78969.24	94853.04	110736.84	
	28880.00	72763.98	90091.98	107419.98	124747.98	142075.98	

INCOME ABOVE ALL COSTS

WHEN THE PRICE OF MILK, GRADE A		RANGES FROM		10.62 TO		13.02	
AND THE QUANTITY OF MILK, GRADE A		RANGES FROM		19252.00 TO		28880.00	
PRICE OF MILK, GRADE A							
		10.62	11.22	11.82	12.42	13.02	

QUANTITY OF MILK, GRADE	19252.00	-88252.03	-76700.83	-65149.63	-53598.43	-42047.23	
	21659.00	-62689.69	-49694.29	-36698.89	-23703.49	-10708.09	
	24066.00	-37127.35	-22687.75	-8248.15	6191.45	20631.05	
	26473.00	-11565.01	4318.79	20202.59	36086.39	51970.19	
	28880.00	13997.33	31325.33	48653.33	65981.33	83309.33	

REPLACEMENT COST = (FRESH COW COST-CULL COW INCOME) * REPLACEMENT RATE
 WALK THROUGH BARN

UPDATED 9/13/80

UC Cooperative Extension

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 479
 COMMERCIAL DAIRY PRODUCTION IN SOUTH BAY PRODUCTION AREA 1979-80
 150 COW HERD 16,044 LBS/HD AVE. ANNUAL PRODUCTION
 22.5% TURNOVER RATE

INCOME ABOVE VARIABLE COSTS

WHEN THE PRICE OF CALVES, BULL		RANGES FROM		48.70 TO	59.50	
AND THE QUANTITY OF CALVES, BULL		RANGES FROM		59.00 TO	91.00	
PRICE OF CALVES, BULL						
		48.70	51.40	54.10	56.80	59.50

QUANTITY OF CALVES, BUL	59.00	* 52338.84	* 52498.14	* 52657.44	* 52816.74	* 52976.04
		* *				
	67.00	* 52728.44	* 52909.34	* 53090.24	* 53271.14	* 53452.04
		* *				
	75.00	* 53118.04	* 53320.54	* 53523.04	* 53725.54	* 53928.04
		* *				
	83.00	* 53507.64	* 53731.74	* 53955.84	* 54179.94	* 54404.04
		* *				
	91.00	* 53897.24	* 54142.94	* 54388.64	* 54634.34	* 54880.04
		* *				

INCOME ABOVE ALL CASH COSTS

WHEN THE PRICE OF CALVES, BULL		RANGES FROM		48.70 TO	59.50	
AND THE QUANTITY OF CALVES, BULL		RANGES FROM		59.00 TO	91.00	
PRICE OF CALVES, BULL						
		48.70	51.40	54.10	56.80	59.50

QUANTITY OF CALVES, BUL	59.00	* 49334.30	* 49493.60	* 49652.90	* 49812.20	* 49971.50
		* *				
	67.00	* 49723.90	* 49904.80	* 50085.70	* 50266.60	* 50447.50
		* *				
	75.00	* 50113.50	* 50316.00	* 50518.50	* 50721.00	* 50923.50
		* *				
	83.00	* 50503.10	* 50727.20	* 50951.30	* 51175.40	* 51399.50
		* *				
	91.00	* 50892.70	* 51138.40	* 51384.10	* 51629.80	* 51875.50
		* *				

INCOME ABOVE ALL COSTS

WHEN THE PRICE OF CALVES, BULL		RANGES FROM		48.70 TO	59.50	
AND THE QUANTITY OF CALVES, BULL		RANGES FROM		59.00 TO	91.00	
PRICE OF CALVES, BULL						
		48.70	51.40	54.10	56.80	59.50

QUANTITY OF CALVES, BUL	59.00	* -9432.35	* -9273.05	* -9113.75	* -8954.45	* -8795.15
		* *				
	67.00	* -9042.75	* -8861.85	* -8680.95	* -8500.05	* -8319.15
		* *				
	75.00	* -8653.15	* -8450.65	* -8248.15	* -8045.65	* -7843.15
		* *				
	83.00	* -8263.55	* -8039.45	* -7815.35	* -7591.25	* -7367.15
		* *				
	91.00	* -7873.95	* -7628.25	* -7382.55	* -7136.85	* -6891.15
		* *				

REPLACEMENT COST = (FRESH COW COST-CULL COW INCOME) * REPLACEMENT RATE
 WALK THROUGH BARN

UPDATED 9/13/80

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 479
 COMMERCIAL DAIRY PRODUCTION IN SOUTH BAY PRODUCTION AREA 1979-80
 150 COW HERD 16,044 LBS/HD AVE. ANNUAL PRODUCTION
 22.5% TURNOVER RATE

INCOME ABOVE VARIABLE COSTS

WHEN THE PRICE OF CALVES, HEIFER AND THE QUANTITY OF CALVES, HEIFER		RANGES FROM	90.19 TO	110.19		
PRICE OF CALVES, HEIFER		RANGES FROM	59.00 TO	91.00		
		90.19	95.19	100.19	105.19	110.19

59.00	*	51330.00	51625.00	51920.00	52215.00	52510.00
	*					
67.00	*	52051.52	52386.52	52721.52	53056.52	53391.52
	*					
75.00	*	52773.04	53148.04	53523.04	53898.04	54273.04
	*					
83.00	*	53494.56	53909.56	54324.56	54739.56	55154.56
	*					
91.00	*	54216.08	54671.08	55126.08	55581.08	56036.08
	*					

INCOME ABOVE ALL CASH COSTS

WHEN THE PRICE OF CALVES, HEIFER AND THE QUANTITY OF CALVES, HEIFER		RANGES FROM	90.19 TO	110.19		
PRICE OF CALVES, HEIFER		RANGES FROM	59.00 TO	91.00		
		90.19	95.19	100.19	105.19	110.19

59.00	*	48325.46	48620.46	48915.46	49210.46	49505.46
	*					
67.00	*	49046.98	49381.98	49716.98	50051.98	50386.98
	*					
75.00	*	49768.50	50143.50	50518.50	50893.50	51268.50
	*					
83.00	*	50490.02	50905.02	51320.02	51735.02	52150.02
	*					
91.00	*	51211.54	51666.54	52121.54	52576.54	53031.54
	*					

INCOME ABOVE ALL COSTS

WHEN THE PRICE OF CALVES, HEIFER AND THE QUANTITY OF CALVES, HEIFER		RANGES FROM	90.19 TO	110.19		
PRICE OF CALVES, HEIFER		RANGES FROM	59.00 TO	91.00		
		90.19	95.19	100.19	105.19	110.19

59.00	*	-10441.19	-10146.19	-9851.19	-9556.19	-9261.19
	*					
67.00	*	-9719.67	-9384.67	-9049.67	-8714.67	-8379.67
	*					
75.00	*	-8998.15	-8623.15	-8248.15	-7873.15	-7498.15
	*					
83.00	*	-8276.63	-7861.63	-7446.63	-7031.63	-6616.63
	*					
91.00	*	-7555.11	-7100.11	-6645.11	-6190.11	-5735.11
	*					

REPLACEMENT COST = (FRESH COW COST-CULL COW INCOME) ÷ REPLACEMENT RATE
 WALK THROUGH BARN

UPDATED 9/13/80

STORED DATA PAGE (NO CALCULATIONS) FOR DAIRY ANIMALS

BUDGET RECORD NUMBER 479

COMMERCIAL DAIRY PRODUCTION IN SOUTH BAY PRODUCTION AREA 1979-80
150 COW HERD 16,044 LBS/HD AVE. ANNUAL PRODUCTION
22.5Z TURNOVER RATE

COSTS AND RETURNS WILL BE
DIVIDED BY 24066.0 CWT.
TO OBTAIN PER CWT. COSTS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	PRICE	WEIGHT	UNIT	ITEM	TYPE	YEAR
PRODUCTION																		
	NUMBER OF UNITS																	
1 MILK, GRADE A	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	11.820	150.000	16.	91.	2.	0.
2 CALVES, BULL	6.00	7.00	6.00	6.00	6.00	7.00	6.00	6.00	6.00	7.00	6.00	6.00	54.100	1.000	1.	27.	2.	0.
3 CALVES, HEIFER	6.00	7.00	6.00	6.00	6.00	7.00	6.00	6.00	6.00	7.00	6.00	6.00	100.190	1.000	1.	29.	2.	0.

	RATE/UNIT												PRICE	NUMBER	UNIT	ITEM	TYPE	YEAR
														UNITS	CODE	CODE		
OPERATING INPUTS																		
10 PASTURE	0.00	0.72	0.00	0.91	0.61	0.59	1.37	1.63	1.70	0.76	0.48	0.00	1.000	150.000	1.	140.	3.	2.
11 DRY ROUGHAGE	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	91.820	150.000	3.	196.	3.	2.
12 WET ROUGHAGE	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	17.090	150.000	3.	197.	3.	2.
13 CONCENTRATES	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	28134.290	150.000	3.	198.	3.	2.
14 MILKERS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.350	150.000	1.	328.	3.	0.
15 HIRED LABOR	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	8.760	150.000	1.	332.	3.	0.
16 FAMILY MILKR	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.830	150.000	1.	339.	3.	0.
17 FAMILY LABOR	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.460	150.000	1.	331.	3.	0.
18 REPLACE. HEIFER	3.00	2.00	3.00	3.00	3.00	3.00	2.00	3.00	3.00	3.00	3.00	3.00	209.090	1.000	1.	33.	3.	0.
19 MANURE HAULING	0.00	0.00	0.33	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.33	0.00	9.000	150.000	1.	485.	3.	0.
20 TAXES & INS.	0.25	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.00	19.250	150.000	1.	439.	3.	0.
21 MARKETING	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	0.480	150.000	16.	478.	3.	0.
22 MISCL EXPENSE	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	17.060	150.000	1.	400.	3.	0.

	TIMES OVER												M CREW	POWER	MACH	TYPE	YEAR	
													LABOR	UNIT	CODE	CODE		
MACHINERY REQUIREMENTS																		
33 TRACTOR 50 HP	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	0.000	0.000	0.	3.	4.	0.
39 PICKUP 1/2 TON	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.000	0.000	0.	13.	4.	0.
40 MIXER WAGON	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	0.000	0.000	4.	46.	4.	0.
41 FRONT END LOADER	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	128.00	0.000	0.000	4.	52.	4.	0.

	NUMBER	PROPERT	XXX	EQUIP	TYPE	XXXX
	UNITS	OF COST		CODE		
EQUIPMENT REQUIREMENTS						
43 WALK THROUGH	1.000	1.000	0.	8.	5.	0.
44 MILKING UNIT	5.000	1.000	0.	17.	5.	0.
45 SS PIPELINE	60.000	1.000	0.	20.	5.	0.
47 VACUUM LINE	60.000	1.000	0.	21.	5.	0.
52 VACUUM PUMP	1.000	1.000	0.	24.	5.	0.
53 MILK PUMP	1.000	1.000	0.	25.	5.	0.
54 MILK RECEIVER	1.000	1.000	0.	26.	5.	0.
55 WATER HEATER	1.000	1.000	0.	27.	5.	0.
56 REFRIG BULK TANK	1.000	1.000	0.	28.	5.	0.
57 SILO PIT	1.000	1.000	0.	49.	5.	0.
58 BULK FEED TANK	1.000	1.000	0.	51.	5.	0.
59 FD CNVYR MTR AUT	1.000	1.000	0.	53.	5.	0.
60 FEED CONVEYOR	70.000	1.000	0.	54.	5.	0.
61 HAYBARN W STANCH	1.000	1.000	0.	66.	5.	0.
62 MACH SHED ENCL	1.000	1.000	0.	68.	5.	0.
63 SHOP	1.000	1.000	0.	69.	5.	0.
64 WTR HOLDING TANK	1.000	1.000	0.	73.	5.	0.
65 20 HP PUMP-WELL	1.000	1.000	0.	75.	5.	0.
66 SUMP PIT	1.000	1.000	0.	87.	5.	0.
67 FLOAT PUMP	1.000	1.000	0.	88.	5.	0.
68 SUMP PUMP 15 HP	1.000	1.000	0.	90.	5.	0.
69 ROTARY AGITATOR	1.000	1.000	0.	91.	5.	0.
70 SPRINKLER SYSTEM	*****	1.000	0.	92.	5.	0.

	150.000	1.000	0.	97.	5.	0.
LIVESTOCK INVESTMENT						
35 DAIRY COW	150.000	1.000	0.	97.	5.	0.
36 DAIRY BULL	2.000	1.000	0.	99.	5.	0.

	2	3	4	5	6
	CHARGE	PAST	NUMBER	VALUE OR	TAXES
	METHOD	NAME	OF ACRES	COST/ACRE	PER ACRE
LAND REQUIREMENTS					
71 FARMSTEAD	1.	150.	40.00	3000.00	0.00
ENTERPRISE 1-26 REGION/COUNTY 27 UNASSIGNED 00 INTEREST METHOD 2 UNASSIGNED 00					
MACHINE COMP. 10 UNASSIGNED 11 EQUIPMENT SET 3 SALE NO./CYCLE LENGTH 1					

REPLACEMENT COST = (FRESH COW COST-CULL COW INCOME) * REPLACEMENT RATE

WALK THROUGH BARN

UPDATED 9/13/80

MACHINERY COMPLEMENT 10
EQUIPMENT COMPLEMENT 3

LINE CHANGE	GENERAL NAME CHANGE	LINE CHANGE	GENERAL NAME CHANGE	LINE CHANGE	GENERAL NAME CHANGE	LINE CHANGE	GENERAL NAME CHANGE	LINE CHANGE	GENERAL NAME CHANGE
196	DRY ROUGHAGE	197	WET ROUGHAGE	198	CONCENTRATES	339	FAMILY MILKR	439	TAXES & INS.
RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE
13.	0.000000	28.	0.000000	16.	0.000000	26.	0.120000	6.	0.120000

1980 default data

1979-1980 California Dairy Budgets

The intent of the 1979-1980 Dairy Budgets is to provide standardized operating input information for the different production regions in California in order to facilitate possible regional comparisons and analyses. To simplify future updating, the budgets are primarily comprised of data obtained from the Bureau of Milk Stabilization survey information for the months Mar.-Dec. (1979) and Jan.-Feb. (1980), unless otherwise stated. Not all items composing the pooled costs, such as marketing or miscellaneous expenses, were reported in the individual survey information. These representative costs for each region may be itemized by contacting the farm advisor. To be consistent, these budgets are regionalized in a manner similar to BMS's with the following herd sizes:

Humboldt-Del Norte	115
North Bay	200, 375
South Bay	150, 300
North Valley	125, 250, 400
South Valley	250, 400, 900
Southern California	250, 500, 900

Assumptions made in the budgets are as follows:

1. The 1979 annual average milk production (per cow) for each region was distributed evenly throughout the year.
2. The blend price of milk will be used, obtained by dividing total receipts F.O.B. to the plant by # of cwts. shipped for each region. Figures will be for straight (non F.C.) milk.
3. Income from heifer and bull calf sales was determined on 100% calving percentage, 50/50 ratio. Prices received were those reported through the BMS survey information.
4. An average monthly consumption rate (ton/hd) was determined for dry roughage, wet roughage and concentrates. Feed prices are the average reported \$/ton figures.
5. Milker and hired labor wages are averages which include cash wage, prerequisites, and employment taxes. Family labor does not include employment taxes and is otherwise the same for each respective wage. Hours per cow was calculated as:
$$= \frac{\text{average total hours per month}}{\text{total \# cows}}$$

(as reported for each region)
6. Figures for taxes on milk production and insurance (fire and liability) are for 1979-1980 and are on a per cwt. basis.

7. The cost for replacement heifers is based on the following formula:

$$= \frac{\text{(purchase price of replacement - cull cow income)}}{\text{x turnover rate}}$$

The figure is equivalent to the accounting method of calculating depreciation of the herd \pm gain/loss on sale of cows. Turnover rate includes culls and mortality losses.

8. Marketing costs include pooling, fluid milk, dairy council, mkt'g. order, inspection fee, 1st and 2nd haul, association fees, and plant charges, if any. The figure is a straight average mkt'g. cost based on cwt. per cow, depending on the region.
9. Manure hauling costs are average figures determined by BMS.
10. Miscellaneous expense is the average general operating costs per cow which includes power, butane, telephone, DHIA, vet. & med., artificial insemination, salt & minerals, clipping, hoof trimming, and bedding, if any.
11. All other costs on the budget will be calculated by the generator, based on type of machinery and equipment used.