

COST AND RETURNS SUMMARY FOR DAIRY ANIMALS BUDGET RECORD NUMBER 470  
 COMMERCIAL DAIRY PRODUCTION IN THE SOUTH VALLEY PRODUCTION AREA 1979-80  
 250 COW HERD 15.156 LBS/HD AVE. ANNUAL PRODUCTION

DAIRY 71770

DY-VS-80-2

ITEM	WEIGHT EACH	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR COST
<b>1. GROSS RECEIPTS</b>						
MILK, GRADE A	250.00	CWT.	11.590	151.560	439145.10	
CALVES, BULL	1.00	HEAD	50.390	125.000	6298.75	
CALVES, HEIFER	1.00	HEAD	99.200	125.000	12400.00	
TOTAL					457843.85	
GROSS INCOME PER CWT.					12.0835	
<b>2. VARIABLE COSTS</b>						
<b>FEED COSTS</b>						
DRY ROUGHAGE		TON	96.590	840.000	81135.60	
WET ROUGHAGE		TON	21.800	1230.000	26814.00	
CONCENTRATES		TON	135.990	900.000	122391.00	
TOTAL FEED COST					230340.60	
<b>OTHER COSTS</b>						
MILKERS		HEAD	7.350	3000.000	22050.00	
HIRE LABOR		HEAD	7.200	3000.000	21600.00	
FAMILY MILK.		HEAD	0.830	3000.000	2490.00	
FAMILY LABOR		HEAD	2.450	3000.000	7350.00	
REPLACE. HEIFER		HEAD	202.650	60.000	12159.00	
MANURE HAULING		HEAD	3.400	750.000	2550.00	
TAXES & INS.		HEAD	13.640	250.000	3410.00	
MARKETING		CWT.	0.390	37890.000	14777.10	
MISCL EXPENSE		HEAD	13.610	3000.000	40830.00	
TRACTORS (FUEL-LUBE-REP)		DOL.			2374.38	
MACHINERY (FUEL-LUBE-REP)		DOL.			561.07	
EQUIPMENT (FUEL-LUBE-REP)		DOL.			341.43	
LABOR: TRACTOR & MACHINERY		HRS.	3.750	640.98	2403.68	
INTEREST ON OPER. CAP.		DOL.	0.12000	30269.77	3632.37	
TOTAL VARIABLE COSTS					366869.64	
VAR. COST PER CWT.					9.6825	
<b>3. INCOME ABOVE OPERATING COSTS</b>					90974.21	
INCOME PER CWT.					2.4010	
<b>4. OVERHEAD</b>						
REAL PROPERTY TAXES					3995.41	
TOTAL OVERHEAD					3995.41	
OVERHEAD COST PER CWT.					0.1054	
TOTAL CASH EXPENSE					370865.04	
CASH EXPENSE PER CWT.					9.7879	
<b>5. INCOME ABOVE CASH COSTS</b>					86978.81	
INCOME PER CWT.					2.2956	
<b>6. FIXED COSTS</b>						
<b>CAPITAL &amp; INTEREST</b>						
INT. ON LIVESTOCK CAPITAL		DOL.	0.12000	330691.50	39682.98	
INT. ON EQUIPMENT CAPITAL		DOL.	0.12000	148413.74	17809.65	
INT. ON MACHINERY CAPITAL		DOL.	0.12000	5501.48	660.18	
INT. ON FARMSTEAD		DOL.	0.12000	100000.00	12000.00	
TOTAL INTEREST					70152.81	
<b>DEPRECIATION</b>						
DEPR. ON LIVESTOCK		DOL.			687.40	
DEPR. ON EQUIPMENT		DOL.			14223.49	
DEPR. ON MACHINERY		DOL.			640.20	
TOTAL DEPRECIATION					15551.09	
TOTAL FIXED COSTS					85703.90	
FIXED COSTS PER CWT.					2.2619	
<b>7. TOTAL COSTS</b>					456568.94	
TOTAL COST PER CWT.					12.0499	
<b>8. NET RETURNS</b>					1274.91	
NET RETURNS PER CWT.					0.0336	

REPLACEMENT COST=FRESH COW COST - CULL COW INCOME X REPLACEMENT RATE

DOUBLE 10 HERRINGBONE BARN, UTILIZING ATO'S

OWNER: DIANA DOUGLAS

updated 9/20/80

DATE PRINTED: 09/12/80

CYCLE LENGTH(MOS.): 1

PRODUCTION UNIT

37890.00 CWT.

1980 default data

CASH FLOW & INVESTMENT SUMMARY FOR DAIRY ANIMALS  
 COMMERCIAL DAIRY PRODUCTION IN THE SOUTH VALLEY PRODUCTION AREA 1979-80  
 250 COW HERD 15.15¢ LBS/HD AVE. ANNUAL PRODUCTION  
 24% TURNOVER RATE

BUDGET RECORD NUMBER 470

		MONTHLY SUMMARY OF RECEIPTS AND EXPENSES											
YEAR UNIT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL RECEIPTS	1 DOL.	38241.	38091.	38241.	38091.	38091.	38241.	38091.	38091.	38241.	38091.	38241.	38091.
<b>OPERATING INPUTS:</b>													
DRY ROUGHAGE	1 DOL.	6761.	6761.	6761.	6761.	6761.	6761.	6761.	6761.	6761.	6761.	6761.	6761.
WET ROUGHAGE	1 DOL.	2234.	2234.	2234.	2234.	2234.	2234.	2234.	2234.	2234.	2234.	2234.	2234.
CONCENTRATES	1 DOL.	10199.	10199.	10199.	10199.	10199.	10199.	10199.	10199.	10199.	10199.	10199.	10199.
MILKERS	1 DOL.	1838.	1838.	1838.	1838.	1838.	1838.	1838.	1838.	1838.	1838.	1838.	1838.
Hired LABOR	1 DOL.	1800.	1800.	1800.	1800.	1800.	1800.	1800.	1800.	1800.	1800.	1800.	1800.
FAMILY MILKRR.	1 DOL.	208.	208.	208.	208.	208.	208.	208.	208.	208.	208.	208.	208.
FAMILY LABOR	1 DOL.	613.	613.	613.	613.	613.	613.	613.	613.	613.	613.	613.	613.
REPLACE. HEIFER	1 DOL.	1013.	1013.	1013.	1013.	1013.	1013.	1013.	1013.	1013.	1013.	1013.	1013.
MANURE HAULING	1 DOL.	0.	0.	850.	0.	0.	0.	850.	0.	0.	0.	850.	0.
TAXES & INS.	1 DOL.	853.	0.	0.	853.	0.	0.	853.	0.	0.	853.	0.	0.
MARKETING	1 DOL.	1231.	1231.	1231.	1231.	1231.	1231.	1231.	1231.	1231.	1231.	1231.	1231.
MISCL EXPENSE	1 DOL.	3403.	3403.	3403.	3403.	3403.	3403.	3403.	3403.	3403.	3403.	3403.	3403.
TRACTOR FUEL COST	1 DOL.	105.	105.	105.	105.	105.	105.	105.	105.	105.	105.	105.	105.
TRACT REPAIR COST	1 DOL.	77.	77.	77.	77.	77.	77.	77.	77.	77.	77.	77.	77.
TRACTOR LUBE COST	1 DOL.	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.
MACHRY FUEL COST	1 DOL.	14.	14.	14.	14.	14.	14.	14.	14.	14.	14.	14.	14.
MACHRY LUBE COST	1 DOL.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
MACH REPAIR COST	1 DOL.	31.	31.	31.	31.	31.	31.	31.	31.	31.	31.	31.	31.
EQUIP REPAIR COST	1 DOL.	28.	28.	28.	28.	28.	28.	28.	28.	28.	28.	28.	28.
MACHINERY LABOR	1 DOL.	200.	200.	200.	200.	200.	200.	200.	200.	200.	200.	200.	200.
INT. ON OPER CAP.	1 DOL.	303.	303.	303.	303.	303.	303.	303.	303.	303.	303.	303.	303.

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

COST	1 DOL.	30928.	30076.	30926.	30928.	30076.	30076.	31778.	30076.	30076.	30928.	30926.	30076.
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		LABOR USE SUMMARY											
		LIVESTOCK INVESTMENT AND COST SUMMARY											
MACHINERY LABOR	1 HOUR	53.	53.	53.	53.	53.	53.	53.	53.	53.	53.	53.	53.

NAME	UNIT	SIZE	INVESTMENT		TOTAL VALUE	DEPR.	INTEREST	COST SUMMARY			TOTAL OP COSTS	
			PURCH PRICE	NO. IN BUDGET				INS/TAXES	SUMMARY TOTAL OWNERSHIP	FUEL & LUBE		REPAIRS
<b>EQUIPMENT</b>												
HBONE-DBL IO	SOFT	6840.	8190.00	1.0	8190.00	2948.40	5405.40	921.38	9275.17	0.00	49.14	49.14
CROWD GATE	UNIT	1.	8190.	1.0	8190.00	737.10	540.54	92.14	1369.78	0.00	0.82	0.82
MILKING UNIT	UNIT	1.	269.	20.0	5380.00	638.88	338.94	60.53	1038.34	0.00	67.25	67.25
AUTO DETACHER	UNIT	1.	995.	20.0	19900.00	2238.75	1313.40	223.88	3776.03	0.00	49.75	49.75
3" SS PIPELINE	FEET	1.	10.	110.0	1100.00	88.00	79.20	12.38	179.58	0.00	0.00	0.00
VACUUM LINE	FEET	1.	4.	130.0	520.00	41.60	37.44	5.85	84.89	0.00	0.00	0.00
INPLACE WASH UNT	UNIT	1.	70.	20.0	1400.00	112.00	100.80	15.75	228.55	0.00	14.00	14.00
OVERHEAD WASH LN	FEET	1.	14.	110.0	1540.00	123.20	110.88	17.33	251.40	0.00	0.00	0.00
BULK FEED TANK	TON	30.	3364.	1.0	3364.00	134.56	242.21	37.85	414.61	0.00	1.68	1.68
VACUUM PUMP	H.P.	8.	3510.	1.0	3510.00	315.90	231.66	39.49	587.05	0.00	10.53	10.53
MILK PUMP	H.P.	2.	702.	2.0	1404.00	126.36	92.66	15.80	234.82	0.00	4.21	4.21
MILK RECEIVER	UNIT	1.	1287.	2.0	2574.00	205.92	185.33	28.96	420.21	0.00	12.87	12.87
WATER HEATER	UNIT	1.	1170.	1.0	1170.00	81.90	91.26	13.16	186.32	0.00	5.51	5.51
REFRIG BULK TANK	GAL.	3000.	22230.	1.0	22230.00	1778.40	1600.56	250.09	3629.05	0.00	44.44	44.44
SILO PIT	UNIT	1.	11115.	1.0	11115.00	444.60	800.28	125.04	1369.92	0.00	0.00	0.00
FD CHVYR MTR AUT	H.P.	5.	2106.	1.0	2106.00	189.54	139.00	23.69	352.23	0.00	21.06	21.06
FEED CONVEYOR	FEET	1.	18.	130.0	2340.00	163.80	182.52	26.33	372.65	0.00	11.70	11.70
DRYLOT CORRAL	HEAD	100.	17316.	3.0	51948.00	1558.44	3428.57	584.42	5571.42	0.00	8.66	8.66
POLE BARN OPEN	SOFT	1800.	5499.	3.0	16497.00	494.91	1088.80	185.59	1769.30	0.00	0.00	0.00
SHOP	SOFT	200.	1404.	1.0	1404.00	31.59	92.66	15.80	140.05	0.00	0.00	0.00
MTR HOLDING TANK	GAL.	12000.	2644.	1.0	2644.00	105.76	190.37	29.75	325.87	0.00	1.32	1.32
20 HP PUMP-WELL	H.P.	20.	4949.	1.0	4949.00	445.41	326.63	55.68	827.72	0.00	4.95	4.95
SQUEEZE CHUTE	UNIT	1.	632.	1.0	632.00	26.86	43.61	7.11	77.58	0.00	1.58	1.58
FLUSH TANK	GAL.	12000.	2644.	1.0	2644.00	237.96	174.50	29.75	442.21	0.00	2.64	2.64
FLUSH VALVE	UNIT	1.	4095.	1.0	4095.00	368.55	270.27	46.07	684.89	0.00	2.05	2.05
FLUSH PIPELINE	FEET	1.	2.	1.0	2.34	0.11	0.15	0.03	0.29	0.00	0.00	0.00
LAGOON	CUFT*****	11700.	11700.	1.0	11700.00	585.00	702.00	131.63	1418.63	0.00	29.25	29.25
<b>LIVESTOCK</b>												
DAIRY COW	HEAD	1.	1310.	250.	327500.00	0.00	39300.00	0.00	39300.00			
DAIRY BULL	HEAD	1.	2455.	2.	4910.00	687.40	382.98	0.00	1070.38			
<b>MACHINERY</b>												
TRACTOR 50 HP			14040.00		14040.00	480.69	576.84	0.00	1057.53	1451.45	922.93	2374.38
PICKUP 4X4			14400.00		14400.00	48.18	28.19	0.00	76.37	189.89	109.72	299.61
MIXER WAGON*			6500.00		6500.00	106.68	52.40	0.00	159.07	5.05	252.51	257.56
FRONT END LOADR*			2880.00		2880.00	4.66	2.75	0.00	7.41	0.08	3.83	3.90
<b>LAND</b>												
FARASTEAD	ACRE		2500.00	40.0	100000.00		12000.00	1000.00	13000.00			
TOTALS					736488.34	15551.09	70152.81	3995.41	89699.30	1646.47	1630.42	3276.89

TOTAL PER CWT. 19.43754 0.4104 1.8515 0.1054 2.3674 0.0435 0.0430 0.0865  
 REPLACEMENT COST-FRESH COW COST - CULL COW INCOME X REPLACEMENT RATE  
 DOUBLE 1D HERRINGBONE BARN, UTILIZING ATO'S  
 AUTHOR: DIANA DOUGLAS

Updated 9/12/80

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 470  
 COMMERCIAL DAIRY PRODUCTION IN THE SOUTH VALLEY PRODUCTION AREA 1979-80  
 250 COW HERD 15,156 LBS/HD AVE. ANNUAL PRODUCTION  
 24% TURNOVER RATE

FUEL USED IN GALLONS PER HOUR

TRACTOR 50 HP 2.400  
 PICKUP 4X4 4.300

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
PICKUP 4X4	0.143	
MIXER WAGON*	0.440	TRACTOR 50 HP
FRONT END LOADR*	0.132	TRACTOR 50 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	84.000	84.000	84.000	84.000	84.000	84.000	84.000	84.000	84.000	84.000	84.000	84.000	1008.000	DIESEL
PICKUP 4X4	11.467	11.467	11.467	11.467	11.467	11.467	11.467	11.467	11.467	11.467	11.467	11.467	137.600	GAS
MIXER WAGON*	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	158.400	DIESEL
FRONT END LOADR*	3.960	3.960	3.960	3.960	3.960	3.960	3.960	3.960	3.960	3.960	3.960	3.960	47.520	DIESEL
<b>TOTALS</b>	<b>112.627</b>	<b>112.627</b>	<b>112.627</b>	<b>112.627</b>	<b>112.627</b>	<b>112.627</b>	<b>112.627</b>	<b>112.627</b>	<b>112.627</b>	<b>112.627</b>	<b>112.627</b>	<b>112.627</b>	<b>1351.520</b>	

GALLONS FUEL BY TYPE  
 137.60 GAS  
 0.00 LP  
 1213.92 DIESEL  
 0.00 N. GAS  
 0.00 KWRS

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

UC Cooperative Extension

updated 9/12/80

MACHINERY OPERATIONS SUMMARY  
 COMMERCIAL DAIRY PRODUCTION IN THE SOUTH VALLEY PRODUCTION AREA 1979-80  
 250 COW HERD 15,156 LBS/HD AVE. ANNUAL PRODUCTION  
 24Z TURNOVER RATE

BUDGET RECORD NUMBER 470

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL, OIL, FIXED	
						LUB. PER ACRE	REPAIRS PER ACRE
TRACTOR 50 HP		3 FEB	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 FEB	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 FEB	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 FEB	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 MAR	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 MAR	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 MAR	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 MAR	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 APR	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 APR	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 APR	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 APR	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 MAY	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 MAY	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 MAY	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 MAY	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 JUNE	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 JUNE	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 JUNE	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 JUNE	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 JULY	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 JULY	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 JULY	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 JULY	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 AUG	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 AUG	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 AUG	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 AUG	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 SEPT	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 SEPT	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 SEPT	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 SEPT	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 OCT	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 OCT	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 OCT	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 OCT	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 NOV	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 NOV	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 NOV	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 NOV	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 DEC	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 DEC	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 DEC	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 DEC	30.00	1.815	1.500	7.48	3.80
TRACTOR 50 HP		3 JAN	35.00	42.000	35.000	****	67.57
PICKUP 4X4		14 JAN	80.00	3.200	2.667	24.97	6.36
RIXER WAGON*	3,	46 JAN	30.00	6.050	5.000	45.30	23.87
FRONT END LOADR*	3,	52 JAN	30.00	1.815	1.500	7.48	3.80

TOTALS \*\*\*\*\*  
 REPLACEMENT COST-FRESH COW COST - CULL COW INCOME X REPLACEMENT RATE  
 DOUBLE 10 HERRINGBONE BARN, UTILIZING ATO'S  
 AUTHOR: DIANA DOUGLAS

Updated 9/12/80

**RANGING ANALYSIS FOR BUDGET RECORD NUMBER 470  
 COMMERCIAL DAIRY PRODUCTION IN THE SOUTH VALLEY PRODUCTION AREA 1979-80  
 250 COW HERD 15,156 LBS/HD AVE. ANNUAL PRODUCTION  
 24% TURNOVER RATE**

**INCOME ABOVE VARIABLE COSTS**

WHEN THE PRICE OF MILK, GRADE A RANGES FROM 10.43 TO 12.75  
 AND THE QUANTITY OF MILK, GRADE A RANGES FROM 30312.00 TO 45468.00

		PRICE OF MILK, GRADE A				
		10.43	11.01	11.59	12.17	12.75
*****						
QUANTITY OF MILK, GRADE	30312.00	* -32016.73	* -14435.77	* 3145.19	* 20726.15	* 38307.11
		* *				
	34101.00	* 7502.54	* 27281.12	* 47059.70	* 66838.28	* 86616.86
		* *				
	37890.00	* 47021.81	* 68998.01	* 90974.21	* 112950.41	* 134926.61
	* *					
	41679.00	* 86541.08	* 110714.90	* 134888.72	* 159062.54	* 183236.36
	* *					
	45468.00	* 126060.35	* 152431.79	* 178803.23	* 205174.67	* 231546.11
	* *					

**INCOME ABOVE ALL CASH COSTS**

WHEN THE PRICE OF MILK, GRADE A RANGES FROM 10.43 TO 12.75  
 AND THE QUANTITY OF MILK, GRADE A RANGES FROM 30312.00 TO 45468.00

		PRICE OF MILK, GRADE A				
		10.43	11.01	11.59	12.17	12.75
*****						
QUANTITY OF MILK, GRADE	30312.00	* -36012.13	* -18431.17	* -850.21	* 16730.75	* 34311.71
		* *				
	34101.00	* 3507.14	* 23285.72	* 43064.30	* 62842.88	* 82621.46
		* *				
	37890.00	* 43026.41	* 65002.61	* 86978.81	* 108955.01	* 130931.21
	* *					
	41679.00	* 82545.68	* 106719.50	* 130893.32	* 155067.14	* 179240.96
	* *					
	45468.00	* 122064.95	* 148436.39	* 174807.83	* 201179.27	* 227550.71
	* *					

**INCOME ABOVE ALL COSTS**

WHEN THE PRICE OF MILK, GRADE A RANGES FROM 10.43 TO 12.75  
 AND THE QUANTITY OF MILK, GRADE A RANGES FROM 30312.00 TO 45468.00

		PRICE OF MILK, GRADE A				
		10.43	11.01	11.59	12.17	12.75
*****						
QUANTITY OF MILK, GRADE	30312.00	* -121716.03	* -104135.07	* -86554.11	* -68973.15	* -51392.19
		* *				
	34101.00	* -82196.76	* -62418.18	* -42639.60	* -22861.02	* -3082.44
		* *				
	37890.00	* -42677.49	* -20701.29	* 1274.91	* 23251.11	* 45227.31
	* *					
	41679.00	* -3158.22	* 21015.60	* 45189.42	* 69363.24	* 93537.06
	* *					
	45468.00	* 36361.05	* 62732.49	* 89103.93	* 115475.37	* 141846.81
	* *					

REPLACEMENT COST=FRESH COW COST - CULL COW INCOME X REPLACEMENT RATE  
 DOUBLE 10 HERRINGBONE BARN, UTILIZING ATO'S  
 AUTHOR: DIANA DOUGLAS

*Updated 9/12/80*

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 470  
 COMMERCIAL DAIRY PRODUCTION IN THE SOUTH VALLEY PRODUCTION AREA 1979-80  
 250 COW HERD 15,156 LBS/HD AVE. ANNUAL PRODUCTION  
 24% TURNOVER RATE

INCOME ABOVE VARIABLE COSTS

WHEN THE PRICE OF CALVES, BULL RANGES FROM 45.39 TO 55.39  
 AND THE QUANTITY OF CALVES, BULL RANGES FROM 101.00 TO 149.00

QUANTITY OF CALVES, BUL	PRICE OF CALVES, BULL				
	45.39	47.89	50.39	52.89	55.39
	*****				
101.00	* 89259.85	* 89512.35	* 89764.85	* 90017.35	* 90269.85
	* *				
113.00	* 89804.53	* 90087.03	* 90369.53	* 90652.03	* 90934.53
	* *				
125.00	* 90349.21	* 90661.71	* 90974.21	* 91286.71	* 91599.21
	* *				
137.00	* 90893.89	* 91236.39	* 91578.89	* 91921.39	* 92263.89
	* *				
149.00	* 91438.57	* 91811.07	* 92183.57	* 92556.07	* 92928.57
	* *				

INCOME ABOVE ALL CASH COSTS

WHEN THE PRICE OF CALVES, BULL RANGES FROM 45.39 TO 55.39  
 AND THE QUANTITY OF CALVES, BULL RANGES FROM 101.00 TO 149.00

QUANTITY OF CALVES, BUL	PRICE OF CALVES, BULL				
	45.39	47.89	50.39	52.89	55.39
	*****				
101.00	* 85264.45	* 85516.95	* 85769.45	* 86021.95	* 86274.45
	* *				
113.00	* 85809.13	* 86091.63	* 86374.13	* 86656.63	* 86939.13
	* *				
125.00	* 86353.81	* 86666.31	* 86978.81	* 87291.31	* 87603.81
	* *				
137.00	* 86898.49	* 87240.99	* 87583.49	* 87925.99	* 88268.49
	* *				
149.00	* 87443.17	* 87815.67	* 88188.17	* 88560.67	* 88933.17
	* *				

INCOME ABOVE ALL COSTS

WHEN THE PRICE OF CALVES, BULL RANGES FROM 45.39 TO 55.39  
 AND THE QUANTITY OF CALVES, BULL RANGES FROM 101.00 TO 149.00

QUANTITY OF CALVES, BUL	PRICE OF CALVES, BULL				
	45.39	47.89	50.39	52.89	55.39
	*****				
101.00	* -439.45	* -186.95	* 65.55	* 318.05	* 570.55
	* *				
113.00	* 105.23	* 387.73	* 670.23	* 952.73	* 1235.23
	* *				
125.00	* 649.91	* 962.41	* 1274.91	* 1587.41	* 1899.91
	* *				
137.00	* 1194.59	* 1537.09	* 1879.59	* 2222.09	* 2564.59
	* *				
149.00	* 1739.27	* 2111.77	* 2484.27	* 2856.77	* 3229.27
	* *				

REPLACEMENT COST=FRESH COW COST - CULL COW INCOME X REPLACEMENT RATE  
 DOUBLE 10 HERRINGBONE BARN, UTILIZING ATO'S  
 AUTHOR: DIANA DOUGLAS

*Updated 9/2/80*

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 470  
 COMMERCIAL DAIRY PRODUCTION IN THE SOUTH VALLEY PRODUCTION AREA 1979-80  
 250 COW HERD 15,156 LBS/HD AVE. ANNUAL PRODUCTION  
 24% TURNOVER RATE

INCOME ABOVE VARIABLE COSTS  
 WHEN THE PRICE OF CALVES, HEIFER AND THE QUANTITY OF CALVES, HEIFER

QUANTITY OF CALVES, HEI	RANGES FROM		89.20 TO	109.20	
	RANGES FROM		101.00 TO	149.00	
	PRICE OF CALVES, HEIFER				
	89.20	94.20	99.20	104.20	109.20
101.00 *	87583.41	88088.41	88593.41	89098.41	89603.41
*					
113.00 *	88653.81	89218.81	89783.81	90348.81	90913.81
*					
125.00 *	89724.21	90349.21	90974.21	91599.21	92224.21
*					
137.00 *	90794.61	91479.61	92164.61	92849.61	93534.61
*					
149.00 *	91865.01	92610.01	93355.01	94100.01	94845.01
*					

INCOME ABOVE ALL CASH COSTS  
 WHEN THE PRICE OF CALVES, HEIFER AND THE QUANTITY OF CALVES, HEIFER

QUANTITY OF CALVES, HEI	RANGES FROM		89.20 TO	109.20	
	RANGES FROM		101.00 TO	149.00	
	PRICE OF CALVES, HEIFER				
	89.20	94.20	99.20	104.20	109.20
101.00 *	83588.01	84093.01	84598.01	85103.01	85608.01
*					
113.00 *	84658.41	85223.41	85788.41	86353.41	86918.41
*					
125.00 *	85728.81	86353.81	86978.81	87603.81	88228.81
*					
137.00 *	86799.21	87484.21	88169.21	88854.21	89539.21
*					
149.00 *	87869.61	88614.61	89359.61	90104.61	90849.61
*					

INCOME ABOVE ALL COSTS  
 WHEN THE PRICE OF CALVES, HEIFER AND THE QUANTITY OF CALVES, HEIFER

QUANTITY OF CALVES, HEI	RANGES FROM		89.20 TO	109.20	
	RANGES FROM		101.00 TO	149.00	
	PRICE OF CALVES, HEIFER				
	89.20	94.20	99.20	104.20	109.20
101.00 *	-2115.89	-1610.89	-1105.89	-600.89	-95.89
*					
113.00 *	-1045.49	-480.49	84.51	649.51	1214.51
*					
125.00 *	24.91	649.91	1274.91	1899.91	2524.91
*					
137.00 *	1095.31	1780.31	2465.31	3150.31	3835.31
*					
149.00 *	2165.71	2910.71	3655.71	4400.71	5145.71
*					

REPLACEMENT COST=FRESH COW COST - CULL COW INCOME X REPLACEMENT RATE  
 DOUBLE 10 HERRINGBONE BARN, UTILIZING ATO'S  
 AUTHOR: DIANA DOUGLAS

*Updated 9/2/80*

STORED DATA PAGE (NO CALCULATIONS) FOR DAIRY ANIMALS

BUDGET RECORD NUMBER 470

COMMERCIAL DAIRY PRODUCTION IN THE SOUTH VALLEY PRODUCTION AREA 1979-80  
250 COW HERD 15,156 LBS/HD AVE. ANNUAL PRODUCTION  
24% TURNOVER RATE

COSTS AND RETURNS WILL BE DIVIDED BY 37890.0 CWT. TO OBTAIN PER CNT. COSTS

Table with columns: LINE PRODUCTION, 1-14 (MONTHS), PRICE, WEIGHT, 15-18 (ITEM TYPE YEAR). Rows include MILK, GRADE A; CALVES, BULL; CALVES, HEIFER; DRY ROUGHAGE; WET ROUGHAGE; CONCENTRATES; MILKERS; HIRED LABOR; FAMILY MILK; FAMILY LABOR; REPLACE. HEIFER; MANURE HAULING; TAXES & INS.; MARKETING; MISCL EXPENSE.

Table with columns: MACHINERY REQUIREMENTS, TIMES OVER, N CREW, POWER, AACH, TYPE, YEAR. Rows include TRACTOR 50 HP; PICKUP 4X4; MIXER WAGON; FRONT END LOADER.

Table with columns: EQUIPMENT REQUIREMENTS, NUMBER UNITS, PROPERT OF COST, XXX EQUIP CODE, TYPE, XXXX. Rows include HBONE-DBL 10; CROWD GATE; MILKING UNIT; AUTO DETACHER; 3" SS PIPELINE; VACUUM LINE; INPLACE WASH UNT; OVERHEAD WASH LN; BULK FEED TANK; VACUUM PUMP; MILK PUMP; MILK RECEIVER; WATER HEATER; REFRIG BULK TANK; SILO PIT; FD CONVYR ATR AUT; FEED CONVEYOR; DRYLOT CORRAL; POLE BARN OPEN; SHOP; WTR HOLDING TANK; 20 HP PUMP-WELL; SQUEEZE CHUTE; FLUSH TANK; FLUSH VALVE; FLUSH PIPELINE; LAGOON.

Table with columns: LIVESTOCK INVESTMENT, 250.000, 1.000, 0., 97., 5., 0.; 2.000, 1.000, 0., 99., 5., 0.

Table with columns: LAND REQUIREMENTS, CHARGE METHOD, PAST NAME, NUMBER OF ACRES, VALUE OR COST/ACRE, TAXES PER ACRE. Rows include FARMSTEAD; ENTERPRISE 1-26 REGION/COUNTY 54 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 X REPLACEMENT RATE  
DOUBLE 10 HERRINGBONE BARN, UTILIZING ATO'S  
AUTHOR: DIANA DOUGLAS

Updated 9/12/80

MACHINERY COMPLEMENT 10  
EQUIPMENT COMPLEMENT 3

Table with columns: GENERAL NAME CHANGE, LINE CHANGE, VALUE, RW CL. Rows include DRY CALVES, DRY ROUGHAGE; DUES-STATE, ASSOC, WET ROUGHAGE; CLIPPING, CONCENTRATES; TRAINING, FAMILY MILK; MANURE HAULING, TAXES & INS.

Table with columns: PARAMETER CHGS, RW CL, VALUE. Rows include 8., 0.000000 13.; 28., 0.000000 26.; 14., 0.000000 14.; 16., 0.120000 6.; 17., 0.000000 17.; 0.04500027.

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 + 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.