

# 253  
Watermelon.

**COST & RETURNS SUMMARY FOR WATERMELONS**  
**COSTS OF PRODUCTION FOR WATERMELON**  
**FRESNO COUNTY**  
**1980 COSTS**

BY DON MAY,  
FARM ADVISOR

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
<b>1. GROSS RECEIPTS FROM PRODUCTION:</b>					
WATERMELONS	TON	80.000	17.000	1360.00	
<b>TOTAL RECEIPTS:</b>				<b>1360.00</b>	
<b>2. VARIABLE COSTS:</b>					
<b>PREHARVEST:</b>					
WATERMELON SEED	LBS.	5.000	3.000	15.00	
HAND HOING	HOURL	4.500	8.000	36.00	
NITROGEN	LBS.	0.100	500.000	50.00	
IRRIG DIST WATER	ACIN	12.000	30.000	360.00	
INSECTICIDE	ACRE	12.500	4.000	50.00	
INSECTICIDE APP	ACRE	3.750	4.000	15.00	
TURN RUNNERS	HOURL	4.500	9.000	40.50	
CULLING	HOURL	4.500	3.000	13.50	
NITROGEN	LBS.	0.200	80.000	16.00	
MISCL EXPENSE	TON	1.000	17.000	17.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			17.05	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			5.88	
IRRIGATION (SYSTEM MAINT.)	ACIN	0.059	30.000	1.76	
MACHINERY LABOR	HOURL	5.500	3.857	21.21	
IRRIGATION LABOR	HOURL	4.500	7.500	33.75	
INTEREST ON OPERATING CAP.	DOL.	0.14000	115.640	15.41	
<b>TOTAL PREHARVEST COSTS:</b>				<b>708.06</b>	
<b>PREHARVEST COST PER TON</b>				<b>41.6505</b>	
<b>HARVEST:</b>					
HARVEST & HAUL	TON	25.000	17.000	425.00	
<b>TOTAL HARVEST COSTS:</b>				<b>425.00</b>	
<b>HARVEST COST PER TON</b>				<b>25.0000</b>	
<b>TOTAL VARIABLE COSTS:</b>				<b>1133.06</b>	
<b>VARIABLE COST PER TON</b>				<b>66.6505</b>	
<b>3. INCOME ABOVE VARIABLE COSTS:</b>					
<b>INCOME PER TON</b>				<b>226.94</b>	
				<b>13.3495</b>	
<b>4. OVERHEAD:</b>					
PERSONAL PROPERTY TAXES:				4.67	
CASH RENT:				125.00	
MISC. OFFICE & BOOKKEEPING ( 8.00% OF TOTAL VARIABLE COSTS)				90.44	
<b>TOTAL OVERHEAD:</b>				<b>220.11</b>	
<b>OVERHEAD COST PER TON</b>				<b>12.9595</b>	
<b>TOTAL CASH COSTS:</b>				<b>1353.37</b>	
<b>TOTAL CASH COST PER TON</b>				<b>79.6100</b>	
<b>5. INCOME ABOVE ALL CASH COSTS:</b>					
<b>INCOME PER TON</b>				<b>6.63</b>	
				<b>0.3900</b>	
<b>6. OWNERSHIP COSTS:</b>					
<b>DEPRECIATION:</b>					
MACHINERY & EQUIPMENT	ACRE			10.87	
<b>TOTAL DEPRECIATION:</b>				<b>10.87</b>	
<b>CAPITAL &amp; INTEREST:</b>					
MACHINERY & EQUIPMENT		0.14000	115.179	16.13	
<b>TOTAL INTEREST CHARGE:</b>				<b>16.13</b>	
<b>TOTAL FIXED COSTS:</b>				<b>27.00</b>	
<b>FIXED COST PER TON</b>				<b>1.5881</b>	
<b>7. TOTAL OF ABOVE COSTS:</b>					
<b>TOTAL COST PER TON</b>				<b>1380.37</b>	
				<b>81.1981</b>	
<b>8. NET RETURNS:</b>					
<b>NET RETURNS PER TON</b>				<b>-20.37</b>	
				<b>-1.1981</b>	

BASED ON 40 ACRES OF CROP  
 FURROW IRRIGATION USING DISTRICT WATER  
 TENANT - LANDOWNER BASIS  
 DATE PRINTED: 08/20/80

HARVEST MONTH: 7

Updated 8/20/80  
 BUDGET RECORD NUMBER 253

1980 de fault data

CASH FLOW & INVESTMENT SUMMARY FOR WATERMELONS

COSTS OF PRODUCTION FOR WATERMELON  
FRESNO COUNTY  
1980 COSTS

BY DON MAY,  
FARM ADVISOR

BUDGET RECORD NUMBER 253

CATEGORY	UNIT	MONTHLY SUMMARY OF RECEIPTS AND EXPENSES												TOTAL
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TOTAL RECEIPTS	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	1360.00	0.00	0.00	0.00	0.00	0.00	1360.00
<b>OPERATING EXPENSES</b>														
WATERMELON SEED	\$/AC	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00
HAND HOEING	\$/AC	0.00	0.00	18.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.00
NITROGEN	\$/AC	0.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00
IRRIG DIST WATER	\$/AC	0.00	0.00	48.00	48.00	72.00	96.00	96.00	0.00	0.00	0.00	0.00	0.00	360.00
INSECTICIDE	\$/AC	0.00	0.00	0.00	0.00	25.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00
INSECTICIDE APP	\$/AC	0.00	0.00	0.00	0.00	7.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	15.00
TURN RUNNERS	\$/AC	0.00	0.00	0.00	0.00	27.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	40.50
CULLING	\$/AC	0.00	0.00	0.00	0.00	0.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	13.50
HARVEST & HAUL	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	425.00	0.00	0.00	0.00	0.00	0.00	425.00
NITROGEN	\$/AC	0.00	0.00	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.00
MISCL EXPENSE	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	17.00
MACHINE LABOR COST	\$/AC	0.00	2.31	10.68	4.11	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.21
INTEREST ON OPER. CAP.	\$/AC	0.00	0.35	7.03	2.63	3.59	1.81	0.00	0.00	0.00	0.00	0.00	0.00	15.41
TRACTOR COST	\$/AC	0.00	2.14	8.55	3.18	3.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.05
EQUIPMENT COST	\$/AC	0.00	1.70	2.53	0.82	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.88
IRRIGATION COST	\$/AC	0.00	0.00	0.23	0.23	0.35	0.47	0.47	0.00	0.00	0.00	0.00	0.00	1.76
IRRIG LABOR COST	\$/AC	0.00	0.00	4.50	4.50	6.75	9.00	9.00	0.00	0.00	0.00	0.00	0.00	33.75
TOTAL EXPENSES	\$/AC	0.00	6.49	164.52	81.48	166.31	166.78	547.47	0.00	0.00	0.00	0.00	0.00	1133.06

MONTHLY IRRIGATION AND LABOR REQUIREMENTS														
MACHINE LABOR	HR/AC	0.00	0.42	1.94	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.86
IRRIGATION LABOR	HR/AC	0.00	0.00	1.00	1.00	1.50	2.00	2.00	0.00	0.00	0.00	0.00	0.00	7.50
IRRIG. WATER APPLIED	ACIN	0.00	0.00	4.00	4.00	6.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	30.00

MACHINERY FIXED AND VARIABLE COSTS PER ACRE														
MACHINE	CODE	SIZE	PURCHASE PRICE	YEARS OWNED	ANN HOURS USED	FIXED COST PER ACRE			VARIABLE COST PER ACRE				HRS PER ACRE	
						DEPR.	INTER.	TAX & INS	TOTAL	FUEL	LUBE	REPAIRS		TOTAL
TRACTOR 40 HP	2	40.0	11400.	20.	600.	2.33	4.22	1.20	7.74	8.09	1.21	3.84	13.15	2.809
CRAWLER 65 HP	10	65.0	32040.	20.	500.	1.95	3.53	1.01	6.48	2.44	0.37	1.10	3.90	0.697
CULTIVATOR 4 ROW	52	10.0	2640.	15.	110.	1.79	2.28	0.67	4.73	0.00	0.03	1.62	1.65	1.236
DISC OFFSET HDY	62	18.0	9720.	15.	100.	2.03	2.59	0.76	5.38	0.00	0.03	1.67	1.70	0.347
DRY FERT APPLIC.	69	12.0	4520.	15.	60.	1.19	1.50	0.44	3.13	0.00	0.01	0.62	0.63	0.260
SPRINGTOOTH	76	12.0	2400.	15.	150.	0.28	0.35	0.10	0.73	0.00	0.01	0.39	0.40	0.286
FURROW 4SHOVEL	91	6.5	1200.	15.	90.	0.40	0.51	0.15	1.06	0.00	0.01	0.30	0.30	0.498
PLANTER 4ROW	108	10.0	2700.	15.	100.	0.91	1.16	0.34	2.41	0.00	0.02	1.17	1.20	0.560
FURROW IRIG SYS*	132	2.0	0.	10.	5000.	0.00	0.00	0.00	0.00	0.00	0.03	1.73	1.76	15.000

MACHINERY & EQUIPMENT 1666.  
INVESTMENT & COSTS PER ACRE 10.87 16.13 4.67 31.66 10.53 1.73 12.44 24.69  
TOTAL INVESTMENT 66620.

BASED ON 40 ACRES OF CROP  
FURROW IRRIGATION USING DISTRICT WATER  
TENANT - LANDOWNER BASIS

updated 8/20/80

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 253  
 COSTS OF PRODUCTION FOR WATERMELON  
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BY DON MAY,  
 FARM ADVISOR

FUEL USED IN GALLONS PER HOUR

TRACTOR 40 HP 2.400  
 CRAWLER 65 HP 3.640

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
DISC OFFSET HDTY	0.695	CRAWLER 65 HP
SPRINGTOOTH	1.147	CRAWLER 65 HP
FURROWER 4SHOVEL	1.314	TRACTOR 40 HP
PLANTER 4ROW	1.478	TRACTOR 40 HP
CULTIVATOR 4 ROW	0.816	TRACTOR 40 HP
DRY FERT APPLIC.	0.688	TRACTOR 40 HP

FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYPE
DISC OFFSET HDTY	0.000	1.390	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.390	DIESEL
SPRINGTOOTH	0.000	0.000	1.147	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.147	DIESEL
FURROWER 4SHOVEL	0.000	0.000	1.314	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.314	GAS
PLANTER 4ROW	0.000	0.000	1.478	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.478	GAS
CULTIVATOR 4 ROW	0.000	0.000	0.000	1.631	1.631	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.263	GAS
DRY FERT APPLIC.	0.000	0.000	0.688	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.688	GAS
TOTALS	0.000	1.390	4.626	1.631	1.631	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.279	

GAS FUEL BY TYPE  
 2.54 GAS  
 0.00 LP  
 2.54 DIESEL  
 0.00 NAT. GAS  
 0.00 KWHRS

FUEL TYPES  
 1=GAS  
 2=L.P.  
 3=DIESEL  
 4=NAT. GA  
 5=ELECTRIC

MACHINERY OPERATIONS SUMMARY  
 COSTS OF PRODUCTION FOR WATERMELON  
 FRESNO COUNTY  
 1980 COSTS

BUDGET RECORD NUMBER 253  
 BY DON MAY,  
 FARM ADVISOR

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOUR	MACHINE HOURS	FUEL, OIL, LUB. PER ACRE	FIXED REP. COSTS PER ACRE
DISC OFFSET HDTY	10,	62 FEB	2.00	0.420	0.347	3.84	8.93
SPRINGTOOTH	10,	76 MAR	1.00	0.347	0.286	2.17	3.66
FURROWER 4SHOVEL	2,	91 MAR	1.00	0.602	0.498	2.87	2.57
PLANTER 4ROW	2,	108 MAR	1.00	0.677	0.560	4.08	4.11
DRY FERT APPLIC.	2,	69 MAR	1.00	0.315	0.260	1.97	3.92
CULTIVATOR 4 ROW	2,	52 APR	2.00	0.748	0.618	4.01	4.24
CULTIVATOR 4 ROW	2,	52 MAY	2.00	0.748	0.618	4.01	4.24
TOTALS			3.857	3.187	22.93	31.66	

BASED ON 40 ACRES OF CROP  
 FURROW IRRIGATION USING DISTRICT WATER  
 TENANT - LANDOWNER BASIS

Updated 8/20/81

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 253  
 COSTS OF PRODUCTION FOR WATERMELON  
 FRESNO COUNTY  
 1980 COSTS

BY DON MAY,  
 FARM ADVISOR

INCOME ABOVE VARIABLE COSTS  
 WHEN THE PRICE OF WATERMELONS  
 AND THE QUANTITY OF WATERMELONS

QUANTITY OF WATERMELONS	PRICE OF WATERMELONS				
	72.00	76.00	80.00	84.00	88.00
13.60	* -153.86	* -99.46	* -45.06	* 9.34	* 63.74
15.30	* -31.46	* 29.74	* 90.94	* 152.14	* 213.34
17.00	* 90.94	* 158.94	* 226.94	* 294.94	* 362.94
18.70	* 213.34	* 288.14	* 362.94	* 437.74	* 512.54
20.40	* 335.74	* 417.34	* 498.94	* 580.54	* 662.14

INCOME ABOVE ALL CASH COSTS  
 WHEN THE PRICE OF WATERMELONS  
 AND THE QUANTITY OF WATERMELONS

QUANTITY OF WATERMELONS	PRICE OF WATERMELONS				
	72.00	76.00	80.00	84.00	88.00
13.60	* -374.17	* -319.77	* -265.37	* -210.97	* -156.57
15.30	* -251.77	* -190.57	* -129.37	* -68.17	* -6.97
17.00	* -129.37	* -61.37	* 6.63	* 74.63	* 142.63
18.70	* -6.97	* 67.83	* 142.63	* 217.43	* 292.23
20.40	* 115.43	* 197.03	* 278.63	* 360.23	* 441.83

INCOME ABOVE ALL COSTS  
 WHEN THE PRICE OF WATERMELONS  
 AND THE QUANTITY OF WATERMELONS

QUANTITY OF WATERMELONS	PRICE OF WATERMELONS				
	72.00	76.00	80.00	84.00	88.00
13.60	* -401.17	* -346.77	* -292.37	* -237.97	* -183.57
15.30	* -278.77	* -217.57	* -156.37	* -95.17	* -33.97
17.00	* -156.37	* -88.37	* -20.37	* 47.63	* 115.63
18.70	* -33.97	* 40.83	* 115.63	* 190.43	* 265.23
20.40	* 88.43	* 170.03	* 251.63	* 333.23	* 414.83

BASED ON 40 ACRES OF CROP  
 FURROW IRRIGATION USING DISTRICT WATER  
 TENANT - LANDOWNER BASIS

*Updated 8/20/80*

STORED DATA PAGE (NO CALCULATIONS) FOR WATERMELONS

BUDGET RECORD NUMBER 253

COSTS OF PRODUCTION FOR WATERMELON  
FRESNO COUNTY  
1980 COSTS

BY DON MAY,  
FARM ADVISOR

COSTS AND RETURNS WILL BE  
DIVIDED BY 17.0 TON  
TO OBTAIN PER TON COSTS

LINE PRODUCTION	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	SHARE RENT	UNIT CODE	ITEM CODE	TYPE	XXXX
1 WATERMELONS	0.00	0.00	0.00	0.00	NUMBER OF UNITS			0.00	0.00	0.00	0.00	0.00	80.000	0.000	3.	98.	2.	0.
OPERATING INPUTS	RATE/UNIT												PRICE	SHARE	UNIT	ITEM	TYPE	HARV
6 WATERMELON SEED	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.000	0.000	12.	198.	3.	0.
7 HAND HOING	0.00	0.00	4.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	335.	3.	0.
8 NITROGEN	0.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.100	0.000	12.	211.	3.	0.
9 IRRIG DIST WATER	0.00	0.00	4.00	4.00	6.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	12.000	0.000	11.	323.	3.	0.
10 INSECTICIDE	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	12.500	0.000	7.	240.	3.	0.
11 INSECTICIDE APP	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	3.750	0.000	7.	359.	3.	0.
12 TURN RUNNERS	0.00	0.00	0.00	0.00	6.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	330.	3.	0.
13 CULLING	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	379.	3.	0.
14 HARVEST & HAUL	0.00	0.00	0.00	0.00	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	25.000	0.000	3.	318.	3.	9.
15 NITROGEN	0.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.200	0.000	12.	211.	3.	0.
16 MISCL EXPENSE	0.00	0.00	0.00	0.00	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	1.000	0.000	3.	400.	3.	0.
MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												H CREW		POWER	MACH	TYPE	HARV
26 DISC OFFSET HDY	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	10.	62.	4.	0.
27 SPRINGTOOTH	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	10.	76.	4.	0.
28 FURROW 4SHOVEL	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	91.	4.	0.
29 WINTER 4ROW	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	108.	4.	0.
30 TIVATOR 4 ROW	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	52.	4.	0.
31 DRY FERT APPLIC.	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	69.	4.	0.
49 ACIN IRRIG WATER	0.00	0.00	4.00	4.00	6.00	8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.	132.	0.
50 NO. TIMES IRRIG	0.00	0.00	2.00	2.00	3.00	4.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00					

EQUIPMENT REQUIREMENTS	NUMBER UNITS	PROPORT OF COST	XXX EQUIP	TYPE	XXXX
NONE STORED WITH BUDGET					
COLUMNS --->	2	3	4	5	6
LAND REQUIREMENTS	CHARGE METHOD	NUMBER OF ACRES	VALUE OR COST/ACRE	TAXES PER ACRE	PERENNIAL CROPS YRS LIFE COST/ACRE
71	2.	40.00	125.00	0.00	0.0
ENTERPRISE 2-98 REGION/COUNTY 10 UNASSIGNED 00000 MACH COMP 2	IRIG SYST 6 UNASSIGNED 2	EQUIP SET 1	HARVEST	RORTH	7

BASED ON 40 ACRES OF CROP  
FURROW IRRIGATION USING DISTRICT WATER  
TENANT - LANDOWNER BASIS

*Updated 8/20/80*

MACHINERY COMPLEMENT 2  
EQUIPMENT COMPLEMENT 1

GENERAL NAME CHANGE-->	LINE CHANGE	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL
TURN RUNNERS	330	5.500000	11.	4.500000	12.	4.500000	18.	0.500000	28.	0.080000	
MACHNRY NAME CHANGE-->	149										
VINEYARD WAGON											

1980 default data