## **Watermelon Production Enterprise Budget**

John McMinn, Dr. Ron Rainey, Dr. Amanda McWhirt



Summary of Estimated Costs and Returns per Acre Watermelons, Irrigated 8 ft row spacing, 12 gpm with 5,445 ft of drip tape

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
INCOME					
INCOME					
TOTAL INCOME				0	
DIRECT EXPENSES					
FERTILIZER	acre	\$287.92			
FUNGICIDE	acre	\$146.02		•	
HERBICIDE	acre	\$27.68	1.0000	\$27.68	
INSECTICIDE	acre	\$16.24	1.0000	\$16.24	
SEED/PLANTS	acre	\$11.66	1.0000	\$11.66	
OTHER*	acre	\$1,093.80	1.0000	\$1,093.80	
IRRIGATION SUPPLIES	acre	\$768.51	1.0000	\$768.51	
FERTIGATION LABOR	hour	\$10.38	10.0000	\$103.80	
HAND LABOR	hour	\$10.38	2.3268	\$24.16	
LABOR MULCH CLEANUP	hour	\$10.38	15.0000	\$155.70	
OPERATOR LABOR	hour	\$12.55	4.3578	\$54.70	
UNALLOCATED LABOR	hour	\$12.56	0.8715	\$10.95	
DIESEL FUEL	gal	\$2.54	16.8230	\$42.74	
REPAIR & MAINTENANCE	acre	\$69.19	1.0000	\$69.19	
INTEREST ON OP. CAP.	acre	\$26.94	1.0000	\$26.94	
TOTAL DIRECT EXPENSES				\$2,840.01	
RETURNS ABOVE DIRECT EXPEN	SES			-\$2,840.01	
TOTAL FIVED EVENINGS				A 4 = = = =	
TOTAL FIXED EXPENSES				\$457.50	
TOTAL SPECIFIED EXPENSES				\$3,297.51	
RETURNS ABOVE TOTAL SPECIF	IED EXPENS		-\$3,297.51		

<sup>\*</sup>Plastic Mulch, Pallet Crates - 1350 lbs, & Harvest labor Melons

This material is based upon work supported by the Natural Resources Conservation Service, U.S. Department of Agriculture, under agreement number 68-7103-16-536. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the views of the U.S. Department of Agriculture. USDA is an equal opportunity provider, employer and lender.

The University of Arkansas System Division of Agriculture offers all its Extension and Research programs and services without regard to race, color, sex, gender identity, sexual orientation, national origin, religion, age, disability, marital or veteran status, genetic information, or any other legally protected status, and is an Affirmative Action/Equal Opportunity Employer.





## Estimated Resource Use and Costs of Field Operations, per Acre Watermelons, irrigated

8 ft row spacing, 12 gpm with 5,445 ft of drip tape Arkansas, 2017



· ·	- •	POWER	PERF	RF TIMES		POWER UNIT COST		<b>EQUIPMENT COST</b>		ALLOC LABOR		OPERATING/ DURABLE INPUT		TOTAL	
		UNIT SIZE RA		OVER		DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	COST
Lime (Spread)	ton			1.00	Jan							1.5000	\$50.00	\$75.00	\$75.00
Chisel Plow	7'	2WD 75 hp	0.220	1.00	Feb	\$2.39	\$1.32	\$0.35	\$0.58	0.22	\$2.77				\$7.41
Disk Harrow	10'	2WD 75 hp	0.198	1.00	Feb	\$2.14	\$1.19	\$0.43	\$0.88	0.19	\$2.49				\$7.13
BS, Lay/Tape/Melon	Bed 8'cntr	2WD 75 hp	0.808	1.00	Mar	\$8.76	\$4.85	\$2.92	\$7.93	0.80	\$10.15				\$34.61
Plastic Mulch	roll											1.4000	\$166.00	\$232.40	\$232.40
Drip Tape	roll					4	4	4	4		4	0.9000	\$182.50	\$164.25	\$164.25
Spray (Broadcast)	27'	2WD 75 hp	0.062	1.00	Mar	\$0.67	\$0.38	\$0.17	\$0.20	0.09	\$1.12		4		\$2.54
Strategy	pt											2.0000	\$13.84	\$27.68	\$27.68
PIntr/H20 Melon	1R 8'cntr	2WD 75 hp	0.645	1.00	Mar	\$7.00	\$3.87	\$1.26	\$1.94	2.58	\$28.19				\$42.26
Watermelon - Diploid	thous											1.8000	\$6.48	\$11.66	\$11.66
Irrigation				1.00	Mar										
Rural Water	ac-in											6.0000	\$100.71	\$604.26	\$604.26
Fertigate CAN03/KN03				1.00	Mar						446				
FERTIGATION LABOR	hour									1.00	\$10.38			Ac	\$10.38
Calcium Nitrate	lb											13.7000	\$0.46	\$6.30	\$6.30
Potash (60% K20)	cwt											0.5000	\$16.52	\$8.26	\$8.26
	16' 100 ga		0.245	1.00	Apr	\$2.66	\$1.47	\$9.87	\$16.45	0.24	\$3.08				\$33.53
Asana XL	OZ											7.0000	\$0.64	\$4.48	\$4.48
Fertigate CAN03/KN03				1.00	Apr										
FERTIGATION LABOR	hour									1.00	\$10.38				\$10.38
Calcium Nitrate	lb											13.7000	\$0.46	\$6.30	\$6.30
Potash (60% K20)	cwt											0.5000	\$16.52	\$8.26	\$8.26
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	1.00	Apr	\$2.66	\$1.47	\$9.87	\$16.45	0.24	\$3.08				\$33.53
Brigade 2EC	OZ											6.0000	\$0.98	\$5.88	\$5.88
Fertigate CAN03/KN03				3.00	Apr										
FERTIGATION LABOR	hour									3.00	\$31.14				\$31.14
Calcium Nitrate	lb											159.0000	\$0.46	\$73.14	\$73.14
Potash (60% K20)	cwt											1.5000	\$16.52	\$24.78	\$24.78
Sprayer Air Blast	16' 100 ga	2WD 75 hp	0.245	2.00	May	\$5.33	\$2.94	\$19.75	\$32.89	0.49	\$6.16				\$67.07
Bravo Weather Stick	pt											3.0000	\$20.80	\$62.40	\$62.40
Quadris	OZ											22.0000	\$1.91	\$42.02	\$42.02
Fertigate CAN03/KN03				3.00	May										
FERTIGATION LABOR	hour									3.00	\$31.14				\$31.14
Calcium Nitrate	lb											41.1000	\$0.46	\$18.91	\$18.91
Potash (60% K20)	cwt											1.5000	\$16.52	\$24.78	\$24.78
	16' 100 ga		0.245	1.00	May	\$2.66	\$1.47	\$9.87	\$16.45	0.24	\$3.08				\$33.53
Bravo Weather Stick	pt											2.0000	\$20.80	\$41.60	\$41.60
Fertigate CAN03/KN03				2.00	May										
FERTIGATION LABOR	hour									2.00	\$20.76				\$20.76
Calcium Nitrate	lb											55.8000	\$0.46	\$25.67	\$25.67
Potash (60% K20)	cwt											1.0000	\$16.52	\$16.52	\$16.52
	16' 100 ga	2WD 75 hp	0.245	1.00	Jun	\$2.66	\$1.47	\$9.87	\$16.45	0.24	\$3.08				\$33.53
Brigade 2EC	OZ											6.0000	\$0.98	\$5.88	\$5.88
Trailer - Vegetables	16'	2WD 75 hp	0.090	4.00	Jun	\$3.90	\$2.16	\$0.20	\$0.32	0.72	\$8.26				\$14.84
Harvest Labor Melons	cwt			1.00	Jun							200.0000	\$2.37	\$474.00	\$474.00
Pallet Crates- 1350lbs	each											20.0000	\$19.37	\$387.40	\$387.40
Plastic Clean Up				1.00	Jun										
Mulch Lifter	1-Row		0.589			\$6.39	\$3.53	\$0.15	\$2.48	0.58	\$7.40				\$19.95
LABOR MULCH CLEAN UP	hour									15.00	\$155.70				\$155.70
Irrigation Setup	acre				Mar							1.0000			\$318.36
TOTALS INTEREST ON OPERATING CAPITAL UNALLOCATED LABOR TOTAL SPECIFIED COST	L					\$47.22	\$26.12	\$64.71	\$113.02	31.68	\$338.36			\$2,351.83	\$3,259.62 \$26.94 \$10.95 \$3,297.51