Squash Production Enterprise Budget

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



Summary of Estimated Costs and Returns per Acre Squash, Summer, Fresh Market, Irrigated 5 ft row spacing, 20 gpm with 8,712 ft of drip tape

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|----------------------------|-----------|------------|----------|-------------|-----------|
| INCOME | | | | | |
| TOTAL INCOME | | | | 0 | |
| DIRECT EXPENSES | | | | | |
| FERTILIZER | acre | \$294.07 | 1.0000 | \$294.07 | |
| FUNGICIDE | acre | \$83.41 | 1.0000 | \$83.41 | |
| HERBICIDE | acre | \$38.99 | 1.0000 | \$38.99 | |
| INSECTICIDE | acre | \$17.64 | 1.0000 | \$17.64 | - |
| SEED/PLANTS | acre | \$35.80 | 1.0000 | \$35.80 | |
| OTHER | acre | \$1,540.20 | 1.0000 | \$1,540.20 | |
| IRRIGATION SUPPLIES | acre | \$878.01 | 1.0000 | \$878.01 | - |
| FERTIGATION LABOR | hour | \$10.38 | 8.0000 | \$83.04 | - |
| GRADE & PACK LABOR | hour | \$10.38 | 110.0000 | \$1,141.80 | |
| HAND LABOR | hour | \$10.38 | 3.5486 | \$36.83 | |
| HARVEST LABOR | hour | \$10.38 | 100.0000 | \$1,038.00 | |
| LABOR MULCH CLEANUP | hour | \$10.38 | 15.0000 | \$155.70 | |
| OPERATOR LABOR | hour | \$12.55 | 7.1016 | \$89.14 | |
| UNALLOCATED LABOR | hour | \$12.55 | 1.4203 | \$17.83 | |
| DIESEL FUEL | gal | \$2.54 | 27.4151 | \$69.64 | |
| REPAIR & MAINTENANCE | acre | \$56.86 | 1.0000 | \$56.86 | |
| INTEREST ON OP. CAP. | acre | \$38.62 | 1.0000 | \$38.62 | |
| TOTAL DIRECT EXPENSES | | | | \$5,615.58 | |
| RETURNS ABOVE DIRECT EXPER | NSES | | | -\$5,615.58 | |
| TOTAL FIXED EXPENSES | | | | \$459.70 | |
| TOTAL SPECIFIED EXPENSES | | | | \$6,075.28 | |
| RETURNS ABOVE TOTAL SPECIF | IFD EXPEN | NSES | | -\$6,075.28 | |

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 for Field Operations, per Acre Squash, summer, fresh market, irrigated 5 ft row spacing, 20 gpm with 8,712 ft of drip tape, Arkansas 2017



| _ · | SIZE/ UNIT | POWER UNIT SIZE | | TIMES OVER | МТН | POWER UNIT COST | | EUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL |
|-------------------------------|---------------|--------------------|---------|---------------|---------|-----------------|---------------|----------------------|---------|-------------|---------------|-------------------------|----------------|---------------|------------|
| | | | | | | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | COST |
| | | | | | | | | | | | | | | | |
| Lime (Spread) | ton | | | 0.33 | Feb | | | | | | | 0.4950 | \$50.00 | \$24.75 | \$24.75 |
| Chisel Plow | 7' | 2WD 75 hp | 0.22 | 1 | Feb | \$2.39 | \$1.32 | \$0.35 | \$0.58 | 0.22 | \$2.77 | | | | \$7.41 |
| Disk Harrow | 10' | 2WD 75 hp | 0.198 | 2 | Mar | \$4.30 | \$2.38 | \$0.87 | \$1.77 | 0.39 | \$4.98 | | | | \$14.30 |
| Disk Bed +App Fert | 4-Row | 2WD 75 hp | 0.14 | 1 | Mar | \$1.53 | \$0.84 | \$0.40 | \$1.02 | 0.21 | \$2.50 | | | | \$6.29 |
| Fert 13-13-13 | cwt | | | | | | | | | | | 9.0000 | \$25.90 | \$233.10 | \$233.10 |
| BS, Lay/Tape/Squash | Bed 5'cntr | 2WD 75 hp | 1.294 | 1 | 1-Mar | \$4.02 | \$7.76 | \$2.87 | \$7.81 | 1.29 | \$16.24 | | | | \$48.70 |
| Plastic Mulch | roll | · | | | | | | | | | | 2.2000 1 | \$66.00 | \$365.20 | \$365.20 |
| Drip Tape | roll | | | | | | | | | | | 1.5000 1 | \$82.50 | \$273.75 | \$273.75 |
| PIntr/H20/pnch/seed | 1-Row | 2WD 75 hp | 2.578 | 1 | 2-Apr | 7.94 1 | \$5.45 | \$4.90 | \$7.57 | 5.15 | \$59.12 | | 7 | 7 | \$114.98 |
| Squash - Hybrid | lb | 211075 HP | 2.570 | - | 2 / tp: | 7.07. 2 | ψ5.15 | ψ50 | ψ,,,,,, | 5.15 | 455.11 | 2.0000 | \$17.90 | \$35.80 | \$35.80 |
| Irrigation | 10 | | | 1 | Apr | | | | | | | 2.0000 | Ψ17.50 | 433.00 | 755.00 |
| Rural Water | ac-in | | | 1 | Δþi | | | | | | | 6.0000 1 | \$0.71 | \$604.26 | \$604.26 |
| Sandea | OZ | | | | | | | | | | | 1.0000 | \$38.99 | \$38.99 | \$38.99 |
| Fertigate CAN03/KN03 | 02 | | | 1 | Anr | | | | | | | 1.0000 | \$30.55 | ,30.33 | \$30.93 |
| FERTIGATION LABOR | hour | | | 1 | Apr | | | | | 1.00 | \$10.38 | | | | \$10.38 |
| | | | | | | | | | | 1.00 | \$10.38 | 2.0700 | 60.46 | 64.70 | |
| Calcium Nitrate | 161400 == | 214D 75 h | 0.245 | | | ć2.cc | 64.47 | ć0.07 | ¢4.5.45 | 0.24 | ¢2.00 | 3.8700 | \$0.46 | \$1.78 | \$1.78 |
| Sprayer Air Blast | 16' 100 ga | 2WD 75 hp | 0.245 | 1 | Apr | \$2.66 | \$1.47 | \$9.87 | \$16.45 | 0.24 | \$3.08 | | | 4 | \$33.53 |
| Brigade 2EC | OZ | | | | | | | | | | | 6.0000 | \$0.98 | \$5.88 | \$5.88 |
| Fertigate CAN03/KN03 | | | | 2 | Apr | | | | | | | | | | |
| FERTIGATION LABOR | hour | | | | | | | | | 2.00 | \$20.76 | | | _ | \$20.76 |
| Calcium Nitrate | lb | | | | | | | | | | | 15.5000 | \$0.46 | \$7.13 | \$7.13 |
| Sprayer Air Blast | 16' 100 ga | 2WD 75 hp | 0.245 | 1 | Apr | \$2.66 | \$1.47 | \$9.87 | \$16.45 | 0.24 | \$3.08 | | | | \$33.53 |
| Quadris | OZ | | | | | | | | | | | 11.0000 | \$1.91 | \$21.01 | \$21.01 |
| Fertigate CAN03/KN03 | | | | 1 | Apr | | | | | | | | | | |
| FERTIGATION LABOR | hour | | | | | | | | | 1.00 | \$10.38 | | | | \$10.38 |
| Calcium Nitrate | lb | | | | | | | | | | | 3.3700 | \$0.46 | \$1.55 | \$1.55 |
| Sprayer Air Blast | 16' 100 ga | 2WD 75 hp | 0.245 | 2 | Apr | \$5.33 | 2.94 1 | \$9.75 | \$32.89 | 0.49 | \$6.16 | | | | \$67.07 |
| Brigade 2EC | OZ | | | | | | | | | | | 12.0000 | \$0.98 | \$11.76 | \$11.76 |
| Bravo Weather Stick | pt | | | | | | | | | | | 3.0000 | \$20.80 | \$62.40 | \$62.40 |
| Fertigate CAN03/KN03 | | | | 4 | May | | | | | | | | | | |
| FERTIGATION LABOR | hour | | | | , | | | | | 4.00 | \$41.52 | | | | \$41.52 |
| Calcium Nitrate | lb | | | | | | | | | | Ų 12.02 | 56.0000 | \$0.46 | \$25.76 | \$25.76 |
| Trailer - Vegetables | 16' | 2WD 75 hp | 0.090.1 | 0 | Jun | \$9.75 | \$5.39 | \$0.50 | \$0.80 | 1.80 | \$20.64 | 30.0000 | Ç0.40 | Q23.70 | \$37.08 |
| HARVEST LABOR | hour | 2WD 7311p | 0.030 1 | 1 | Jun | \$3.75 | \$3.33 | Ç0.50 | Ç0.00 | 100.00 | \$1,038.00 | | | | \$1,038.00 |
| 5-Gal Bucket | each | | | 1 | Jun | | | | | 100.00 | 31,036.00 | 200.0000 | \$3.95 | \$790.00 | \$1,038.00 |
| Bushel Box | | | | | | | | | | | | | | | |
| | each | | | _ | Lear | | | | | 440.00 | ¢1 141 00 | 250.0000 | \$1.54 | \$385.00 | \$385.00 |
| GRADE & PACK LABOR | hour | 214/5 75 1 | 1 | 0 | Jun | 66.22 | 62.52 | 60.45 | ¢2.40 | 110.00 | \$1,141.80 | | | | \$1,141.80 |
| Mulch Lifter | 1-Row | 2WD 75 hp | 0.589 | 1 | Jun | \$6.39 | \$3.53 | \$0.15 | \$2.48 | 0.58 | \$7.40 | | | | \$19.95 |
| LABOR MULCH CLEANUF | hour | | | | | | | | | 15.00 | \$155.70 | | | | \$155.70 |
| Irrigation Setup | acre | | | | Apr | | | | | | | 1.0000 | | | \$329.33 |
| TOTALS | | | | | | \$76.97 | \$42.55 | \$49.53 | \$87.82 | 243.65 | \$2,544.51 | | \$2.00 | \$888.12 | \$6,018.83 |
| INTEREST ON OPERATING CAPITAL | | | | | | φ, σ.σ, | Ų .E.33 | Ų .5.33 | Ç07.02 | 2.3.03 | 7-,0 | | Ų <u>2</u> .00 | 7000.12 | \$38.62 |
| UNALLOCATED LABOR | • | | | | | | | | | | | | | | \$17.83 |
| | | | | | | | | | | | | | | | |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | \$6,075.28 |