**Carolina Farm Stewardship Association, 2019**

**Organic Tomatoes – Irrigated – Wholesale Market – 18 lb Case**

**Budget based on 1 acre of tomatoes on a 10 acre mixed organic vegetable farm.**

**Estimated Costs and Returns Per Acre.**

 UNIT QUANTITY $/UNIT TOTAL $/ACRE YOUR FARM

**RECEIPTS**

1. Tomatoes Case 1200 28 33,600 \_\_\_\_\_\_\_\_\_\_
2. **VARIABLE COSTS**
3. Organic Certification Acre 1 80 80 \_\_\_\_\_\_\_\_\_\_
4. Seedlings Thou. 4.4 75 330 \_\_\_\_\_\_\_\_\_\_
5. Compost/Manure Ton 2 40 80 \_\_\_\_\_\_\_\_\_\_
6. Organic Fertilizer Acre 1 2600 2600 \_\_\_\_\_\_\_\_\_\_
7. Cover Crop Acre 1 80 80 \_\_\_\_\_\_\_\_\_\_
8. Lime (prorated) Ton 0.33 50 17 \_\_\_\_\_\_\_\_\_\_
9. Organic Pest Spray Oz. 512 0.50 256 \_\_\_\_\_\_\_\_\_\_
10. Fuel Gal. 24 3.00 72 \_\_\_\_\_\_\_\_\_\_
11. Paper Case Each 1200 1.70 2040 \_\_\_\_\_\_\_\_\_\_
12. Stakes & Twine Each 200 15 660 \_\_\_\_\_\_\_\_\_\_
13. 5-Gal. Bucket Each 200 2.50 500 \_\_\_\_\_\_\_\_\_\_
14. Labor Hrs. 440 10 4400 \_\_\_\_\_\_\_\_\_\_
15. Irrigation supplies Acre 1 1000 1000 \_\_\_\_\_\_\_\_\_\_
16. Plastic Mulch Roll 3.75 100 375 \_\_\_\_\_\_\_\_\_\_
17. Other? \_\_\_\_\_\_\_\_\_\_

Total Variable Costs 12,490

1. **FIXED COSTS**
2. Machine & Equip. Acre 1 240 240 \_\_\_\_\_\_\_\_\_\_
3. Irrigation Acre 1 80 80 \_\_\_\_\_\_\_\_\_\_
4. Land Charge Acre 1 50 50 \_\_\_\_\_\_\_\_\_\_

Total Fixed Costs 370

**TOTAL COSTS** **12,860**

**RETURN ABOVE VARIABLE COSTS**   **21,110**

**RETURN ABOVE TOTAL COSTS 20,740**

**Notes – Budget estimates for planning only.**

1. Yield extrapolated from Mississippi State University Budgets, 2013. Price are an average from the USDA Market News Organic Market.
2. Variable costs are those costs that a farmer incurs because s/he decided to grow this specific crop.
3. Average organic certification cost from USDA Farm Services Administration.
4. Average of organic seedling prices based on Internet search.
5. Average price of 1 ton of compost, chicken litter, or manure found in Internet search.
6. Price extrapolated from Mississippi State University organic enterprise budget, 2009.
7. Average cost for various cover crops species based on Internet search.
8. Equals 1 ton of lime per acre every 3 years. Price from Internet search.
9. Used only when mechanical and physical control methods are ineffective. Application rates and weighted average price for Dipel DF, PyGanic & Trilogy taken from 2013 CFSA pest control worksheets.
10. Average annual diesel price per gallon in the Carolinas from the U.S. Dept. of Energy, 2018.
11. From Mississippi State University Budgets, 2018.
12. Average of Clemson Extension 2012 and Mississippi State University 2013 enterprise budgets, price from Internet search.
13. Price provided by farmers at CFSA’s Organic Commodities and Livestock Conference, 2015.
14. Labor estimates vary widely. This estimate is extrapolated from enterprise budget developed by Clemson Extension, University of Georgia and Mississippi State University.
15. Irrigation supplies include 1.5 rolls of drip tape and 6 acre inches of rural water cost. Quantity needed derived from the Mississippi State University 2018 enterprise budgets, cost based on Internet search.
16. Plastic mulch quantity based on 6 foot row spacing from the center of one bed to the center of the next, requiring 8,712 linear feet, cost based on Internet search.
17. Purposely left blank for other unspecified farm costs.
18. Fixed costs are costs that a farmer incurs whether or not a crop is grown.
19. See table below.
20. Annual fixed cost for irrigation setup.
21. Average farm rental values for North and South Carolina from the USDA National Agricultural Statistics Service, 2018.

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| **Machinery and Equipment Costs\*** |
| **Item** | **Purchase Price** | **Salvage Value $** | **Useful Life Years** | **Acres Used/Yr.** | **Repair & Maint. $/AC** | **Total\*\* $/AC** |
| Tractor  | 17,000.00 | 4,000.00 | 20 | 10 | 3.00 | 68.00 |
| Chisel Plow | 2,500.00 | 600.00 | 15 | 10 | 0.30 | 13.00 |
| Transplanter | 2,600.00 | 600.00 | 20 | 4 | 0.20 | 25.00 |
| Pest. Sprayer | 9,400.00 | 1,900.00 | 20 | 10 | 9.50 | 47.00 |
| Trailer | 1,100.00 | 200.00 | 20 | 10 | 0.10 | 5.00 |
| Disk | 4,450.00 | 900.00 | 15 | 10 | 0.20 | 24.00 |
| Manure Spreader | 3,000.00 | 1,500.00 | 20 | 10 | 0.20 | 8.00 |
| Bed Shaper | 2,500.00 | 600.00 | 20 | 5 | 1.50 | 21.00 |
| 200 Buckets | 1,000.00 | 0.00 | 5 | 7 | 0.00 | 29.00 |
| \*Estimates derived from Mississippi State University, Traditional Vegetable 2013 Planning Budgets; Why Cows Need Names, and More Secrets of Amish Farms, Randy James, Kent State University Press, 2013 and internet search of various machinery suppliers. |
| \*\*Total $/Ac. = Purchase Price – Salvage Value/Useful Life/ Acres Used + Repair & Maintenance. |

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