**Carolina Farm Stewardship Association, 2014**

**Organic Watermelon – Irrigated – Wholesale Market – 1350 lb Crate**

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

**Estimated Costs and Returns per Acre.**

UNIT QUANTITY $/UNIT TOTAL $/ACRE YOUR FARM

**RECEIPTS**

1. Watermelon Crate 20 324 6,480 \_\_\_\_\_\_\_\_\_\_

**2. VARIABLE COSTS**

1. Organic Certification Acre 1 80 80 \_\_\_\_\_\_\_\_\_\_
2. Seedlings Thous. 2 200 400 \_\_\_\_\_\_\_\_\_\_
3. Compost Ton 1 40 40 \_\_\_\_\_\_\_\_\_\_
4. Cover Crop Acre 1 80 80 \_\_\_\_\_\_\_\_\_\_
5. Lime (prorated) Ton 0.33 40 13 \_\_\_\_\_\_\_\_\_\_
6. Organic Pest. Sprays Oz. 646 0.70 452 \_\_\_\_\_\_\_\_\_\_
7. Fuel Gal. 20 4.00 80 \_\_\_\_\_\_\_\_\_\_
8. Pallet Crate Each 20 20 400 \_\_\_\_\_\_\_\_\_\_
9. Labor Hrs. 33 10 330 \_\_\_\_\_\_\_\_\_\_
10. Irrigation Supplies Acre 1 1070 1070 \_\_\_\_\_\_\_\_\_\_
11. Plastic Mulch Acre 1 200 200 \_\_\_\_\_\_\_\_\_\_
12. Other? \_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total Variable Costs 3,145

1. **FIXED COSTS**
2. Machine & Equip. Acre 1 211 211 \_\_\_\_\_\_\_\_\_\_
3. Irrigation Acre 1 80 80 \_\_\_\_\_\_\_\_\_\_
4. Land Charge Acre 1 50 50

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total Fixed Costs 341 \_\_\_\_\_\_\_\_\_\_

**TOTAL COSTS** **3,486** \_\_\_\_\_\_\_\_\_\_

**RETURN ABOVE VARIABLE COSTS 3,335** \_\_\_\_\_\_\_\_\_\_\_

**RETURN ABOVE TOTAL COSTS 2,994** \_\_\_\_\_\_\_\_\_\_\_

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

1. Yield extrapolated from Mississippi State University Budgets 2013. Price taken from Carolina Farm Stewardship Assoc. (CSFA) Organic Produce Marketing Survey, 2013.
2. Variable costs are those costs that a farmer incurs because he/she decided to grow this specific crop.
3. Average organic certification cost from USDA Farm Services Administration.
4. Extrapolated from organic seedling prices found in Internet search, and enterprise budgets developed by Mississippi State University and Clemson Extension.
5. Average price of 1 ton of compost, chicken litter, or manure found in Internet search.
6. Average of various cover crop seed and planting cost. Estimated from farmer interviews, and Mississippi State University enterprise budgets, 2013.
7. Equals 1 ton of lime per acre every 3 years. Price from Internet search.
8. Used only when mechanical and physical control methods are ineffective. Application rates and weighted average price for PyGanic, Sonata & Cueve (copper) taken from 2013 CFSA pest control worksheet.
9. Mississippi State University, Traditional Vegetables 2013 Planning Budgets, and farmer reviews.
10. Cost estimate from Internet search of various suppliers.
11. Labor estimates vary widely. This estimate is extrapolated from enterprise budgets developed by University of Georgia 2009 and Mississippi State University 2013.
12. Irrigation supplies include 1.5 rolls of drip tape and 6 acre inches of rural water cost. Derived from the Mississippi State University 2013 enterprise budgets.
13. Plastic Mulch.
14. Purposely left blank for other unspecified farm costs.
15. Fixed costs are costs that a farmer incurs whether or not a crop is grown.
16. See table below.
17. Annual fixed cost for irrigation setup.
18. Average of farm rental values for North and South Carolina. Estimated from USDA National Agricultural Statistics Service 2010 published cropland rents.

Machinery and Equipment Costs\*

Useful

Purchase Salvage Life Acres Repair & Maint. Total\*\*

Item Price $ Value $ Yrs. Used/Yr. $/Ac. $/Ac.

Tractor 17,000 4,000 20 10 3.00 68

Chisel Plow 2,500 600 15 10 0.30 13

Transplanter 2,600 600 20 4 0.20 25

Pest. Sprayer 9,400 1,900 20 10 9.50 47

Trailer 1,100 200 20 10 0.10 5

Disk 4,450 900 15 10 0.20 24

Manure Spreader 3,000 1,500 20 10 0.20 8

Bed Shaper 2,500 600 20 5 1.50 21

Total $/ Acre = 211

\*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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