The control of the						Vegetables						Fruits		
The control of the			Beans	Cabbage	Carrots	Cucumbers		Onions	Peas	Potato	Total	Strawberries	Total	Total Farm P/L
Colonium	Acreage (1/10ths)		0.2	0.5	0.5	0.5	0.1	0.2	0.2	1.5	3.7	1	1	
Third	%Acreageby Crop	% Crop Acreage	2%	14%	14%	14%	3%	2%	2%	41%		100%		
Communication   Communicatio										9,547.89		7779.23		
Second Command   Second Command   Second Command Com	Tota		8,063.39					Ш.				7,779.23		\$ 84,395.42
Street	Variable Expenses													
Chemical   Grow   Line   Line   Grow   Line   Grow   Gro			293.09	112.43	44.53	144.53	624.62	129.79	248.16		2,291.51		704.00	
Commonwell   Com	Chemica		00:0	11.76	1.41	0.00	00:00	0.00	0.00		13.17		,	
Controlled   State   State   Controlled   State	Fertilize		30.07	123.29	3.45	88.06	64.84	15.19	21.97		402.65		36.49	
Control cont	Packagin		131.68	0.00	127.19	120.80	115.09	19.07	171.68		790.43		292.64	
Freedoction Regions   Part	Custom Wor		11.76	0.00	1.28	0.00	58.45	0.00	29.95		119.92		, ,	
Frontion begins  Fronting begins  Fronti	Irrigatio,		55.64	9.20	4.30 24.58	20.70	75.88	18.34 358 39	36.03		315.1b 2.471.96		74.19 168 99	
Fraction Margin   Fraction M	Production Expenses	~	1	Ш	Ш	, II	938.88 \$	Ш			11		1.276.31	\$ 7.681.11
Final color	Production Margin	• •		4,983.15									6,502.92	-
Figure   F														
Marchendre														
Figure 1985   Figure 1985   Figure 1985   Figure 1982	Lruckin												31.04	
Frances (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	ROMINI BUIIDING	Λ. υ											46.61	
Figure Marked Son Figure 1 (1994) 6 (1924) 6 (19	Ray Infaction												137 72	
Frience Market Booth Free S 6120 S 6 1272 S 1121 S	Advortiging												137.72	
France Markel Book Feet   France Markel Feet   France Markel Book Feet   France Markel Book Feet   France Markel Feet   France Markel Feet   France Markel Book Feet   France Markel Feet   France Markel Feet   France Markel Feet   France Markel Book F	Trave												50.33	
Total Operating Experised   S. 65,058 S	Farmers Market Booth Fee												23.44	
Principle   Prin	Total Operating Expense:	-⊪∽	Ш	Ш							1		592.99	\$ 11,693.79
Pedicabour   Same   14881   14881   1488   1488   1488   14881   148	Net Operating Profit/Loss (Per Crop	\$											5.909.93	\$ 65.020.52
Paid labour   S		•												
Princitation   S   1,452,18   S   1,152,18   S			<b>\0</b>	_				_				100%		
Trail-lander to court from Lander Court button Margin S 337246 \$ 340748 \$ 2,21351 \$ 4,3393 \$ 2,11734 \$ 3,00074 \$ 7,21031 \$ 7,11024 \$ 5,11176 \$ 7,11024 \$ 7,1	Paid Labour	· ·										3,791.49	3,791.49	\$ 20,481.31
Print/Loss after Total Babour S, 332246 S, 992448 S, 293337 S, 10,92783 S, 20379 S, 11,366.57 -S, 800.92 S, 31,761.36 -S, 71,184.4 S, 70,104 S, 70	Univalgi Labour Total Jahour Evnenses	<b>^∥</b> ▽				. 11				.		2,190.29	5 981 78	\$ 12,849.70
Profit/Loss after Paid Labour         \$ 5,337.64         \$ 3,302.46         \$ 3,302.46         \$ 3,302.46         \$ 3,302.46         \$ 3,302.46         \$ 3,302.46         \$ 3,302.46         \$ 3,902.48         \$ 1,0927.83         \$ 706.25         \$ 2,999.16         \$ 1,186.57         \$ 1,186.57         \$ 1,186.57         \$ 1,186.47         \$ 1,186.44         \$ 1,186.57         \$ 1,186.57         \$ 1,186.47         \$ 1,186.44         \$ 1,186.57         \$ 1,186.57         \$ 1,186.57         \$ 1,186.57         \$ 1,186.57         \$ 1,186.47         \$ 1,186.57         \$ 1,186.57         \$ 1,186.47         \$ 1,186.57														
Pority Loss after Total Labour   S   3,322.46   9,924.48   5   2,933.7   10,977.83   5   1,366.57   5   800.92   5   31,761.36   5   71.85   5   5     Contribution Margin   S   3,883.78   5   3,322.46   5   9,924.48   5   2,933.7   5   10,977.83   5   13,665.7   5   800.92   5   31,761.36   5   71.85   5     Contribution Margin   Deprecation Margin   S   144.8	Profit/Loss after Paid Labou												2,118.44	\$ 44,539.21
Contribution Margin         \$ 3,883.78         \$ 3,322.46         \$ 9,924.48         \$ 2,933.37         \$ 10,977.83         \$ 1,366.57         \$ 800.02         \$ 31,761.36         \$ 71.85	Profit/Loss after Total Labou	\$											71.85	\$ 31,689.51
Contribution Margin         \$ 3,883.78         \$ 3,322.46         \$ 9,924.48         \$ 2,933.37         \$ 1,966.57         \$ 1,966.57         \$ 10,005         \$ 1,100%           Operating Interest Contribution Margin         Depreciation & Signature of Contribution Margin         5 1,100														
Operating Interest         5%         14%         14%         14%         3%         5%         5%         41%         100%           Operating Interest         223.70         19.17         \$ 20.72         \$ 431.2         \$ 689.01         \$ 385.01         \$ 365.16         \$ 1,756.70         \$ 2053.2         \$           Depreciation - Machinery         Total Sinvested         \$ 19.17         \$ 20.72         \$ 441.01         \$ 385.01         \$ 283.02         \$ 283.02         \$ 205.32         \$ 205.32         \$           Small Tools         106.09         \$ 130.44         \$ 360.02         \$ 42.03         \$ 444.01         \$ 179.55         \$ 286.75         \$ 112.81         \$ 20.03         \$ 20.02         \$ 20.02         \$ 44.01         \$ 302.04         \$ 60.00         \$ 20.02         \$ 20.02         \$ 44.01         \$ 302.04         \$ 60.00         \$ 20.02         \$ 20.02         \$ 44.01         \$ 302.04         \$ 20.02         \$ 20.02         \$ 44.01         \$ 302.04         \$ 20.02         \$ 20.02         \$ 44.01         \$ 302.04         \$ 20.02         \$ 20.02         \$ 44.01         \$ 302.04         \$ 20.02         \$ 20.02         \$ 20.02         \$ 20.02         \$ 20.02         \$ 20.02         \$ 20.02         \$ 20.02         \$ 20.02         \$ 20.02	Contribution Margii	❖											71.85	\$ 31,689.51
Operating interest         25%         14%         14%         14%         14%         3%         5%         41%         16%         10%           Operating interest         \$ 123.70         \$ 191.7         \$ 20.75         \$ 43.12         \$ 689.01         \$ 387.61         \$ 385.16         \$ 365.16         \$ 205.32 <td>Fixed Expenses</td> <td></td>	Fixed Expenses													
Total Sinvested   154.52   2.072   34.12   68.901   38.21   38.51   5   365.16   5   1.7670   5   205.32   5     Total Sinvested   154.62   2.072   5   2.68211   5   381.8   5   573.7   5   24.01   5   382.9   5   385.8   5   4.188.96   5   205.32   5     Total Sinvested   196.40   5   120.7   5   188.72   5   170.9   5   170.9   5   170.05   5   302.4   5   608.40   5   302.03   5   1128.1   5     Section   16.40   5   14.04   5   36.00   5   4.20   5   4.31.00   5   29.42   5   213.00   5   293.32   5   4.138.96   5   209.74   5     Section   196.40   5   1.10   5   4.40   5   1.20   5   4.31.00   5   294.2   5   213.00   5   203.4   5   209.74   5     Section   2.50   2.71   5		Depreciation %	2%	14%	14%	14%	3%	2%	2%	41%		100%		
Total 5   Tota	Operating Interes												205.32	
15040   15040   15044   15044   16040   1604	Depreciation - Building	Total \$ Invested											90.93	
3         3	Depreciation - Machiner	l otal \$ Invested											112.81	
\$ 56.17         \$ 130.00         \$ 77.33         \$ 66.15         \$ 55.18         \$ 67.79         \$ 166.01         \$ 256.97         \$ 736.88         \$ 736.87         \$ 736.87         \$ 736.97	DOLLING I												64.31	
\$ 63.73 \$ 31.21 \$ 119.08 \$ 46.51 \$ 156.55 \$ 44.27 \$ 107.59 \$ 166.40 \$ 735.43 \$ 533.2 \$ \$ 53.2 \$ \$ 5 64.58 \$ 44.04 \$ 1716 \$ 66.75 \$ 65.24 \$ 6071 \$ 646.8 \$ 187.28 \$ 568.44 \$ 97.59 \$ 5 5 64.58 \$ 44.04 \$ 175.08 \$ 65.70 \$ 58.34 \$ 6071 \$ 64.68 \$ 187.28 \$ 668.66 \$ 773.0 \$ 97.59 \$ 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Vehicle Registration	. •											73.68	
\$ 64.58 \$ 4404         \$ 1716 \$ 64.75 \$ 65.24 \$ 60.71 \$ 64.68 \$ 187.28 \$ 568.44 \$ 97.59 \$           \$ 57.17 \$ 44.61 \$ 125.08 \$ 65.70 \$ 15.83 \$ 62.56 \$ 64.35 \$ 183.36 \$ 666.23 \$ 783.5 \$           \$ 57.17 \$ 44.61 \$ 125.08 \$ 65.07 \$ 145.87 \$ 65.25 \$ 64.35 \$ 183.36 \$ 666.23 \$ 783.5 \$           \$ 64.56 \$ 145.87 \$ 145.87 \$ 125.6 \$ 145.87 \$ 125.0 \$	Insurance	• •											53.32	
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\$ 5480 \$ 2.24 \$ 82.07 \$ 42.16 \$ 12.35 \$ 12.15 \$ 109.10 \$ 11.78 \$ 19.92 \$ 70.24 \$ \$ 70.24 \$ \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Utilities - Powe				310.73 \$								40.52	
\$\frac{1}{5}\$\frac{1}{1184.06}\$\frac{5}{5}\$\frac{1}{2174.0}\$\frac{5}{5}\$\f	Utilities - Phon- Professional Fees				65.04 \$	13.11 \$							70.24	
\$ 1,784.06 \$ 387.00 \$ 4,401.95 \$ 621.32 \$ 2,386.02 \$ 1,790.33 \$ 2,640.54 \$ 14,648.23 \$ 1,181.09 \$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	HOJESSIOIAI LE	^   <u>`</u>		Ш	۱.	42.10 \$	\$ 17.07		. 1		300.77	\$ 96.50	04.20	
\$ 3,050,64 \$ 3,088,09 \$ 9,116,91 \$ 2,538,95 \$ 8,958,96 -\$ 1,57,07 \$ 2,17,38 -\$ 2,539,74 \$ 24,274,12 -\$ 1,049,20 -\$	lotal Fixed Expense	٨			_	\$ 221.32	\$ 79.986.7				14,648.23 \$	\$ 60.181,1	1,181.09	5 15,829.32
	Gross Margin			0000										

# **Fruit and Vegetable Direct Market Cost of Production Definitions**

## **Yearly Revenue**

- Revenue is broken down by each Vegetable or Fruit crop grown. In each instance, the total quantity and price received should be used to calculate the total revenue for each Vegetable or Fruit crop.
- In addition, quantity and price are also used for calculating the Farm Gate, Farmers Market and Wholesale revenue.
- When analyzing Revenue numbers, keep in mind any production/environmental issues and price changes as these
  impact (increase or decrease) farm profitability.
- The summary page can mask crops which are not profitable, therefore each crop should be analyzed separately.

#### **Production Expenses**

- A breakdown of Production Expenses specific to each crop is best for accurate analysis.
- Lumping production costs together masks crop profitability and minimizes the amount of analysis that can be completed.
- Seed, Chemical and Fertilizer are specific to each crop and the cost for each can easily be calculated. Packaging cost are usually crop specific due to crop variance in packaging requirements.
- Custom work, Insurance, Irrigation and other costs can be calculated based on the percentage of each crop grown.
   Reviewing production costs on a yearly basis can provide insight into changing profitability and aid managing production costs for each crop.

## **Production Margin**

- Production Margin is calculated in the following manner: Production Margin = Yearly Revenue Production Expenses.
- Review Production Margin for each crop to ensure that each crop is producing a profit at this stage. If a crop is not
  profitable and extenuating circumstances do not exist, consider why that crop is being grown. Crops with a higher
  Production Margin are essential for overall farm profitability.

#### **Operating Expenses**

- These are expenditures that the farm incurs throughout the production year; however, they are not directly associated with the production of the crop.
- The total cost for each category collected should be determined for each crop based on the acreage percentage of each crop grown. This is then rolled into the Total Operating Expense for each crop. Carefully look at the change in Operating Expenses for each year. Analysing Operating Expenses for differences between years can help explain why farm profitability has increased or decreased. For example, an increase in fuel or major repair to a piece of equipment could have a major impact on perating expenses. Understanding these changes can be very important, particularly if asked by a financial institution.

## **Labour Expenses**

- Labour Expenses are divided into two categories; paid (actual salaries paid to employees) and unpaid (an estimate of dollars invested by owners for which they are not paid).
- Paid labour is based on the actual total wages paid and then divided among the crops based on acreage percentage, unless a higher percentage of labour than other crops.
- Unpaid labour is based on hours estimated to complete various tasks on the farm. An average cost of \$15.00 per hour
  to calculate the cost for unpaid labour was used, and this cost was then divided amongst the crops based on acreage
  percentage, unless a crop requires a higher percentage of labour than other crops. The unpaid labour was factored
  into the calculations as there is value for this management.

# **Total Variable Expenses**

- Total Variable Expenses = Production Expenses + Operating Expenses + Labour (Paid and Unpaid) Expenses.
- All these expenses are what it costs throughout the year to grow and sell the produce. These expenses should be
  monitored for fluctuations and analysed to determine why changes occurred. Critical monitoring of Variable Expenses
  will aid in profitability if production/marketing issues arise.

# Fruit and Vegetable Direct Market Cost of Production Definitions (continued)

#### **Contribution Margin**

- Contribution Margin = Total Revenue Variable Expenses (Total Production Expenses Total Operating Expenses –
  Total Labour (Paid and Unpaid)).
- This calculation will determine how much the farm is able to contribute toward Fixed Expenses. If the Contribution
  Margin in a given year is negative, then either Revenue needs to increase or expenses need to decrease for farm
  profitability to be maintained. Monitoring specific crop revenue for each year provides a picture on which crop(s) are
  positively and negatively affecting Contribution Margin. Crops returning a negative Contribution Margin should be
  carefully assessed to determine if continued production of that specific crop is financially wise. Without analysis of
  Contribution Margin, production of a non-profitable crop could continue.

## **Fixed Expenses**

- There are three categories of Fixed Expenses; they are Operating Interest, Depreciation of Machinery and Depreciation of Buildings.
- Operating Interest includes all interest paid to Financial Institutions for production of goods for sale. This total expense
  is then divided between crops based on an acreage percentage. Depreciation for Machinery and Buildings is based
  on values collected for each year and then a 10% straight line depreciation is utilized and divided amongst each crop
  based on an acreage percentage. These expenses are totalled to determine the Total Fixed Expenses for the operation.

# **Gross Margin**

- Gross Margin is calculated for a farm to determine revenue remaining after all out-of-pocket expenses are deducted.
- The calculation is as follows: Gross Margin = Total Revenue Variable Expenses Fixed Expenses (not including Building and Machinery depreciation).
- A positive Gross Margin means there is money left over to pay management and also for future capital expenditures.
   If this value is negative then the farm is not able to cover the production, operating and labour expense needed for production of the produce to be sold. If Gross Margin is increasing it is important for producers to analyze the numbers to determine why so the farm can continue to improve. Likewise if Gross Margin is declining it is equally important to analyze the numbers so corrective actions can be taken. Disregarding changes in Gross Margin could be detrimental to the overall farming operation.