Appendix F: Finished Good Inventory Chart

					Finish	ed Goo	ds Inven	tory					
ID	Туре	Common Name	Size	Paper	Quanti ty	Annual Demand Quantity	-	List Price	Holding Cost Per Unit (\$)	Economic Order Quantity	Daily Deman d Rate	Lead Time (days)	Reorder Point
BT0202	Bangtail	#09 Bangtail	03-7/8 x 8- 7/9	White 24#	107,20 0	43750	\$1,200.00	\$0.05	0.00075	374,165.74	119.86	30	3,595.89
CN1C0	Coin	#01 Coin	02-1/4 x 3- 1/2	White 24#	80,000	25000	\$950.00	\$0.25	0.00375	112,546.29	68.49	30	2,054.79
CN3C0	Coin	#03 Coin	02-1/2 x 4- 1/4	24ww	39,000	6250	\$950.00	\$1.12	0.0168	26,586.56	17.12	30	513.70
CN7C0	Coin	#07 Coin	03-1/2 x 6- 1/2	24ww	3,500	6250	\$850.00	\$1.12	0.0168	25,148.37	17.12	30	513.70
CN7C0 2	Coin	#07 Coin	03-1/2 x 6- 1/2	White 24#	36,000	12500	\$850.00	\$0.50	0.0075	53,229.06	34.25	30	1,027.40
DK0100	Doorkn obs	Doorknobs	03-5/8 x 6- 1/2	Blue	91,000	14000	\$1,200.00	\$0.06	0.000825	201,809.99	38.36	60	2,301.37
DK0101	Doorkn obs	Doorknobs	03-5/8 x 6- 1/2	Yellow 80#	55,000	10250	\$1,200.00	\$0.06	0.000825	172,679.42	28.08	60	1,684.93
DK0102	Doorkn obs	Doorknobs	03-5/8 x 6- 1/2	pink	35,000	2250	\$1,200.00	\$0.06	0.000825	80,903.98	6.16	60	369.86
DK0104	Doorkn obs	Doorknobs	03-5/8 x 6- 1/2	Green	38,000	34500	\$1,200.00	\$0.06	0.000825	316,802.20	94.52	6	567.12
DK0105	Doorkn obs	Doorknobs	03-5/8 x 6- 1/2	24ww	83,000	91000	\$1,200.00	\$0.06	0.000825	514,516.54	249.32	60	14,958.9
DK0200	Doorkn	Doorknobs	04-3/8 x 6-	24ww	140,00	30500	\$1,200.00	\$0.07	0.001065	262,168.64	83.56	60	5,013.70

]	Finish	ed Goo	ds Inven	tory					
ID	IIIVne	Common Name	Size	Paper	Quanti ty	Annual Demand Quantity		List Price	Cost Per	Economic Order Quantity	Deman	Lead Time (days)	Reorder Point
	obs		1/2		0								
KK0200	Kost Kut	6-3/4 KK	03-5/8 x 6- 1/2	White 24#	252,00 0	34000	\$1,200.00	\$0.04	0.00054	388,730.13	93.15	30	2,794.52
MN010 0	Miniatur es	Miniatures	01 x 01	White 24#	547,00	695250	\$950.00	\$0.02	0.00033	2,000,738.5 0	1,904.79	30	57,143.8 4
MN020 0	Miniatur es	Miniatures	01-1/4 x 1- 1/4	24ww	271,00 0	1263000	\$950.00	\$0.02	0.000246	3,123,280.0 1	3,460.27	30	103,808. 22
MN031 5	Miniatur es	Miniatures	01-1/2 x 1- 1/2	White 24#	485,00 0	2317000	\$950.00	\$0.02	0.000315	3,738,389.4 3	6,347.95	30	190,438. 36
MN070 0	Miniatur es	Miniatures	01-7/8 x 01- 7/8	White 24#	240,00	100250	\$950.00	\$0.04	0.000597	564,848.30	274.66	30	8,239.73
MN080 0	Miniatur es	Miniatures	02 x 2	White 24#	40,000	1018500	\$950.00	\$0.03	0.000444	2,087,689.1 4	2,790.41	30	83,712.3 3
MN120 1	Miniatur es	Miniatures	02-1/2 x 2- 1/2	24ww	5,200	465750	\$950.00	\$0.03	0.000405	1,478,174.5 5	1,276.03	30	38,280.8
MN150	Miniatur es	Square	03 x 3	cream	59,200	136500	\$950.00	\$0.04	0.0006225	645,466.12	373.97	30	11,219.1
SL0103	Sleeves	Sleeves	02-1/4 x 3- 3/8	RFID Defender	75,000	187500	\$950.00	\$0.08	0.0012	544,862.37	513.70	30	15,410.9 6
SL0110	Sleeves	Sleeves	02-1/4 x 3- 3/8	24ww	5,000	87500	\$950.00	\$0.02	0.000345	694,178.69	239.73	30	7,191.78
SL0112	Sleeves	Sleeves	02-1/4 x 3- 3/8	orca laminate	62,500	118750	\$950.00	\$0.05	0.00069	571,832.80	325.34	30	9,760.27
SL0113	Sleeves	Sleeves	02-1/4 x 3- 3/8	tyvek	74,000	50000	\$950.00	\$0.06	0.000825	339,339.82	136.99	30	4,109.59

Appendix G: Warehouse Return on Investment Calculations

ŀ	f they use the time					
	Shipping more	Gain	52.395 hours of		Miniature ship time	5.5 minutes
			shipping more			
			571.5817974	more order		0.09166667
			571.58 orders with 68 each	2000 minis in	Last year sold 620000 minis	Last year 10 orders contained minis
				minis sold extra	62000	average number of units in an order
			0.019354839	list price of mini		
		Gain	\$685,898.16	extra money fr	om shipping more	
	Producing More	Gain	117.7 hours of producing more		Miniature produce time	8 hours is 80000 units
						117.7 hours
			1177000	extra units		14.7125
			0.019354839			1177000
		Gain	\$22,780.65			
ľ	f they don't use the	time	<u> </u>	<u>L</u>	<u> </u>	<u> </u>
	BEFORE					
		Time (minutes)	Time(hours)	Wage	Total spent on them	Total
	Shipper	13675	227.9166667	16.59	\$3,781.14	\$6,454.13
	Producer	9362.5	156.0416667	17.13	\$2,672.99	
	AFTER					
	Time spent					
		Time (minutes)	Time (hours)	Wages	Total Money spent on them	
	Shipper	10531.25	175.5208333	16.59	2911.890625	\$3,568.54
	Producer	2300	38.3333333	17.13	656.65	
				Total savings if	employees didn't work	the time saved
					\$2,885.59	
	1	1	L	I.	L	·

Appendix H: Manual System Tracking Return on Investment Calculations

How Much Inventory Management will Increase Quote Retention

	y Management will	ilicrease Quote Rete	-110011		
Current					
			Completed		Total
Won Quotes	Total Quotes		Orders		Orders
10	100		C . a.c. o	3860	38600
				3600	38000
Increase by	5%				
Quotes with					
Inventory			Completed		Total
Management	Total Quotes		Orders		Orders
10.5	100			4053	38600
		Potential			
Price Per Order	Current Revenue	Revenue			
\$90.36	\$348,789.60	\$366,229.08			
			Ī		
					Ongoing
		Revenue Increase	First Year R	OI	ROI
		\$17,439.48		183%	409%
Increase by	15%				
Quotes with					
Inventory			Completed		Total
•	Total Quetos		•		
Management	Total Quotes		Orders		Orders
11.5	100			4439	38600
		Potential			
D: D O I		Б			

		Potential		
Price Per Order	Current Revenue	Revenue		
\$90.36	\$348,789.60	\$401,108.04	_	
				Ongoing
		Revenue Increase	First Year ROI	ROI
		\$57,550.28	748%	1427%
			•	
	Training Cost	\$2,055.60		
	System Setup			
	Cost	\$685.20		
	Weekly Data			
	Entry	\$3,426.00		
	Total Cost	\$6,166.80		

Appendix I: Automated System Tracking Return on Investment Calculations

How Much Inventory Management will Increase Quote Retention

Current					
			Completed		
Won Quotes	Total Quotes		Orders		Total Orders
10				3860	38600
				-	3333
Increase by	15%				
Quotes with	1370				
Inventory			Completed		
Management	Total Quotes		Orders		Total Orders
11.5			Oracis	4439	38600
Price Per Order	Current Revenue	Potential Revenu		4433	115%
			ie		115%
\$90.36	\$348,789.60	\$401,108.04	Ī		
		Revenue	E' 1.1/ D.	01	0 : 00!
		Increase	First Year R		Ongoing ROI
		\$57,550.28		887%	4304%
Increase by	25%				
Quotes with					
Inventory			Completed		
Management	Total Quotes		Orders		Total Orders
12.5	100			4825	38600
Price Per Order	Current Revenue	Potential Revenu	ie		125%
\$90.36					123/0
	\$348,789.60	\$435,987.00			123/0
φ30.30	\$348,789.60	\$435,987.00			12370
φ3 0 .30	\$348,789.60	,	ĺ		123/0
\$30.30	\$348,789.60	Revenue	First Year R	OI	
Ç 30.30	\$348,789.60	Revenue Increase	First Year Ro		Ongoing ROI
\$30.30	\$348,789.60	Revenue		OI 545%	
, 50.50		Revenue Increase			Ongoing ROI
, 50.50	Cost of Finale:	Revenue Increase			Ongoing ROI
, 50.50	Cost of Finale: Annual Cost	Revenue Increase \$95,917.14			Ongoing ROI
, 50.50	Cost of Finale: Annual Cost Training Cost	Revenue Increase \$95,917.14 \$99/month			Ongoing ROI
, 50.50	Cost of Finale: Annual Cost	Revenue Increase \$95,917.14			Ongoing ROI

Appendix J: Cumulative Return on Investment Calculations

Warehous	e Value		Cumulativ	e Value	
	Pessimistic	Optimistic		Pessimistic	Optimistic
First Year Cost	\$579.13	\$579.13	First Year Cost	\$5,878.33	\$5,878.33
Ongoing Cost	\$ -	\$ -	Ongoing Cost	\$1,188.00	\$1,188.00
Gain	\$22,780.65	\$22,780.65	Gain	\$75,099.09	\$109,978.05
First Year ROI	3834%	3834%	First Year ROI	1178%	1771%
Ongoing ROI	n/a	n/a	Ongoing ROI	6221%	9157%
Automate	d Value				
	Pessimistic	Optimistic			
First Year Cost	\$5,299.20	\$ 5,299.20			
Ongoing Cost	\$1,188.00	\$1,188.00			
Gain	\$52,318.44	\$87,197.40			
First Year ROI	887%	1545%			
Ongoing ROI	4304%	7240%			

Appendix K: Finale Inventory© Features

Small Business Package	Standard Business Package
Price of System	Price of System
- \$99/month	- \$199/month
Summary Reports (Historical data, overall	Summary Reports (Historical data, overall
financial reports)	financial reports)
- Standard Reports	- Standard Reports
 Weekly account report 	 Weekly account report
 Purchases by account, 	 Purchases by account,
shipment, product, product	shipment, product, product
category	category
 Sales reports by product or 	 Sales reports by product or
category	category
 Broad range of stock reports 	 Broad range of stock reports
Many more	 Many more
	- Customizable reports
Shop floor Control (WIP Tracking)	Shop floor Control (WIP Tracking)
- Does not support WIP Tracking	- serial number tracking
	- lot number tracking
Inventory Management (Finished goods,	Inventory Management (Finished goods,
raw materials)	raw materials)
- Able to track stock by location	- Able to track stock by location
- Able to track stock by product	- Able to track stock by product
- Able to stack stock by category	- Able to stack stock by category
	- Supports automated reorders and
	reorder points
Work Station Tickets/Manufacturing	Work Station Tickets/Manufacturing
Tickets	Tickets
- unable to create Work Station Tickets	- able to create Work Station Tickets
QuickBooks TM Integration	QuickBooks TM Integration
- Designed to integrate with	- Designed to integrate with
QuickBooks TM	QuickBooks TM
Cloud-Based System	Cloud-Based System
- Yes, is a cloud-based system	- Yes, is a cloud-based system
Barcoding	Barcoding
 Does not support barcoding 	- Barcode label printing
	- 2 mobile barcode scanner licenses
Sales and Billing Documentation	Sales and Billing Documentation
- Purchase Order documents	- Purchase Order documents
- Price quotes	- Price quotes
- Sales orders	- Sales orders
- Invoices	- Invoices
Shipping Documentation	Shipping Documentation
- Receive, pack, and ship documentation	- Receive, pack, and ship documentation

Able to produce bills of ladingAbility to ship by lot ID (helps with FIFO)	 Able to product bills of lading Ability to ship by lot ID (helps with FIFO)
Inventory Adjustment at Time of Order	Inventory Adjustment at Time of Order
- is able to adjust inventory at time of	- is able to adjust inventory at time of

Table 18: Finale Inventory© Package Features

Appendix L: Fishbowl Inventory© Manufacturing Features

Fishbowl Inventory[®] Manufacturing

Price of System

- One-time payment of \$4395, price increases with added user licenses

Summary Reports (Historical data, overall financial reports)

- Gross Sales by Product
- Inventory Turnover Reports
- Accounting Reports
- Historical data reports
- Many more

Shop floor Control (WIP Tracking)

- Multi-location part tracking
- Lot number tracking

Inventory Management (Finished goods, raw materials)

- Real time inventory management
- Calculates reorder points (can automatically generate reorders too)
- Expiration date tracking
- LIFO and FIFO Tracking

Work Station Tickets/Manufacturing Tickets

- Can create work orders and multi-station work orders
- Can create work order priorities
- Helps with work order scheduling
- Can automatically generate work orders

QuickBooksTM Integration

Designed specifically to work with QuickBooksTM

Cloud-based System

- Not cloud-based, is installed on a computer system

Barcoding

- Fully supports barcode scanning and capabilities

Sales and Billing Documentation

- Ability to turn price quotes into sales orders
- Saves sales orders to use if customer orders product again
- "Quick lists" feature allows company to create standard sales orders for commonly ordered products so that only minor order adjustments need to be made
- Supports variable pricing options
- Convert sales orders to purchases orders

Shipping Documentation

- Pick, pack, and ship documentation
- Able to print shipping labels
- UPS and FedEx compatible

Inventory Adjustment at Time of Order

- Able to adjust inventory at time of order

Table 19: Fishbowl Inventory[®] Manufacturing Features

Appendix M: QuickBooksTM Enterprise Features

Platinum Edition

Price of System

- \$1600 for 1 user license, price increases with more licenses (4 licenses is \$3000)

Summary Reports (Historical data, overall financial reports)

- Has a variety of financial reports
- Able to create custom reports
- Has a variety of standard inventory reports
- Able to create interactive reports and graphs to better identify trends

Shop floor Control (WIP Tracking)

- Serial number tracking
- Lot number tracking

Inventory Management (Finished goods, raw materials)

- Real time inventory data
- Able to set custom reorder points
- Able to track inventory using FIFO

Work Station Tickets/Manufacturing Tickets

- Only able to create work orders if the Field Service Management Add-on is purchased at an additional cost

QuickBooksTM Integration

Designed to integrate with QuickBooksTM

Cloud-based System

- Not normally cloud-based, but can be for an addition \$54.99/month/user

Barcoding

- Supports barcode scanning

Sales and Billing Documentation

- Able to create sales orders
- Able to create invoices
- Able to create estimates (quotes)
- Able to set custom pricing and billing levels

Shipping documentation

- Able to create shipping labels for FedEx and UPS from customer orders and invoices

Inventory Adjustment at Time of Order

- Has Available to Promise feature, which adjusts inventory at the time of order

Table 20: QuickBooksTM Enterprise Features

Appendix N: Step-by-Step Process of Analytical Hierarchy Process

The first step in AHP consisted of determining Sheppard's weights based on their preferences and inputting them into a matrix, which can be seen in Table 21. The preferred criteria would get the criteria weighting and the least preferred criteria is determined by calculating the reciprocal of the weight. As seen in Table 21, Price was more preferred over Summary Reports, which is displayed by Price having a 3 and Summary Reports being the reciprocal of that weight.

	Price	Summary	WIP Tracking	Inventory Management	Work Station Ticket	Quickbooks Integration	Cloud Based	Barcoding	Sales & Billing	Shipping Documents	Inventory Adj
Price	1.00	3.00	6.00	0.25	0.33	7.00	8.00	9.00	0.33	0.25	0.33
Summary	=1/D3	1.00	8.00	0.20	0.25	7.00	7.00	9.00	0.20	0.20	0.17
WIP Tracking	0.17	0.13	1.00	0.13	0.11	1.00	1.00	1.00	0.13	0.13	0.11
Inventory Management	4.00	5.00	8.00	1.00	0.50	8.00	8.00	9.00	1.00	4.00	0.50
Work Station Ticket	3.00	4.00	9.00	2.00	1.00	7.00	8.00	9.00	2.00	2.00	2.00
Quickbooks Integration	0.14	0.14	1.00	0.13	0.14	1.00	2.00	2.00	0.17	0.14	0.14
Cloud Based	0.13	0.14	1.00	0.13	0.13	0.50	1.00	2.00	0.13	0.13	0.13
Barcoding	0.11	0.11	1.00	0.11	0.11	0.50	0.50	1.00	0.11	0.11	0.11
Sales & Billing	3.00	5.00	8.00	1.00	0.50	6.00	8.00	9.00	1.00	2.00	0.33
Shipping Documents	4.00	5.00	8.00	0.25	0.50	7.00	8.00	9.00	0.50	1.00	0.20
Inventory Adj	3.00	6.00	9.00	2.00	0.50	7.00	8.00	9.00	3.00	5.00	1.00
Total	18.88	29.52	60.00	7.19	4.07	52.00	59.50	69.00	8.56	14.95	5.02

Table 21: AHP Weights Determined by Sheppard's Preferences

The Table 22 displays the weights from above as normalized numbers. This was done by taking the exact cell from the first matrix and dividing it by its total column sum. The average of each row is calculated at the right of the matrix, resulting in its overall priority. The last cell is the consistency measure, which uses the Excel formula =MMULT. This a multiplication formula that calculates the original weights, from Table 21, with averages from the new normalized matrix giving the consistency measure. The consistency measure is then averaged and used in the CI, the consistency index, calculations for determining the individual index. The RI, ratio index, was a given number determined by the number of criterion. Therefore, the consistency ratio (CR) is computed by dividing the CI by the RI. The CR needs to be below 0.1 in order to be considered as consistent.

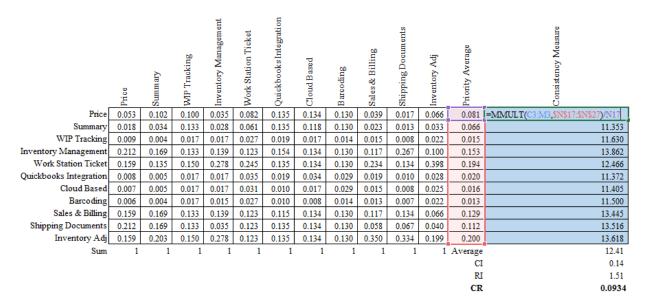


Table 22: AHP Weights as Normalized Numbers

Figure 20 shows one of the matrices for each individual criterion. The first matrix on the left is based on the prices for each product being examined, Finale Inventory© Small Business, Finale Inventory© Standard Business, Fishbowl Inventory© and Enterprise. The next is the normalized matrix, which is calculated the same way as earlier. The last table shows the weighted sum, which incorporates the priority of each product and calculates the consistency measure. The CI is calculated the same way as earlier and the RI is now 0.9 because of the number of products being used as criteria. These three matrices are done for each criterion for a 12-month and 36-month subscription.

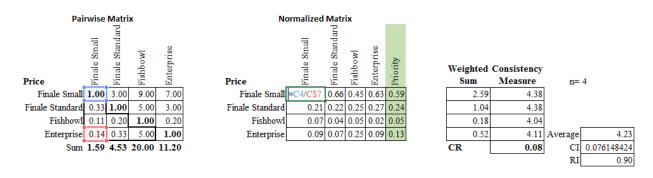


Figure 20: Matrices for an Individual Analytical Criterion

The priority summary matrix is a collection of all the priorities from each software for each criteria (Table 23).

Priority Summary											
	Price	Summary Reports	WIP Tracking	Inventory Management	Work Station Tickets	Quickbooks Integration	Cloud Based	Barcoding	Sales & Billing	Shipping Documents	Inventory Adjustment
Priority	0.0812	0.0661	0.0155	0.1526	0.0163	0.0201	0.0163	0.0131	0.1292	0.1124	0.1997
Finale Small Business	0.592	0.250	0.036	0.250	0.321	0.250	0.450	0.036	0.250	0.250	0.250
Finale Standard Business	0.237	0.250	0.321	0.250	0.321	0.250	0.450	0.321	0.250	0.250	0.250
Fishbowl	0.045	0.250	0.321	0.250	0.321	0.250	0.050	0.321	0.250	0.250	0.250
Enterprise	0.126	0.250	0.321	0.250	0.036	0.250	0.050	0.321	0.250	0.250	0.250

Table 23: AHP Priority Summary

The overall rankings for the products were calculated by the addition of the priority for each criteria times each criterion's priority. The left table is the results based on priorities and the criterion for a 12-month subscription and the right a 36-month subscription (see Table 24).

Ove	Overall 12 Month Rankings								
1	Finale Small	0.23							
2	Finale Standard	0.21							
3	Enterprise	0.19							
4	Fishbowl	0.19							

Overall 36 Month Rankings									
1	Finale Small	0.54							
2	Finale Standard	0.53							
3	Fishbowl	0.53							
4	Enterprise	0.26							

Table 24: Product Rankings for Both 12- and 36-Month Periods

Appendix O: Time Value of Money Calculations

Month	1	2	3	4	5	6	7	8	9	10	11	12
Cost	(\$3,466)	(\$2,356)	(\$99)	(\$99)	(\$99)	(\$99)	(\$99)	(\$99)	(\$99)	(\$99)	(\$99)	(\$99)
Learning Curve (%)	-	2.00	3.00	3.00	4.00	5.00	5.00	6.00	6.00	7.00	8.00	9.00
Revenue Warehouse	\$ 1,898.39	\$ 1,898.39	\$ 1,898.39	\$ 1,898.39	\$ 1,898.39	\$ 1,898.39	\$ 1,898.39	\$ 1,898.39	\$ 1,898.39	\$ 1,898.39	\$ 1,898.39	\$ 1,898.39
Revenue Auto	\$ -	\$ 601.36	\$ 902.04	\$ 902.04	\$ 1,202.72	\$ 1,503.40	\$ 1,503.40	\$ 1,804.08	\$ 1,804.08	\$ 2,104.76	\$ 2,405.45	\$ 2,706.13
Total Revenue Increase per Month	\$ 1,898.39	\$ 2,499.75	\$ 2,800.43	\$ 2,800.43	\$ 3,101.11	\$ 3,401.79	\$ 3,401.79	\$ 3,702.47	\$ 3,702.47	\$ 4,003.15	\$ 4,303.83	\$ 4,604.51
Team Recommendation	\$ (1,567.53)	\$ 144.25	\$ 2,701.43	\$ 2,701.43	\$ 3,002.11	\$ 3,302.79	\$ 3,302.79	\$ 3,603.47	\$ 3,603.47	\$ 3,904.15	\$ 4,204.83	\$ 4,505.51
Investment	\$3,466	\$2,356	\$99	\$99	\$99	\$99	\$99	\$99	\$99	\$99	\$99	\$99
Investment Yield (10%)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Invest Option	\$3,812.51	\$4,048.06	\$4,057.96	\$4,067.86	\$4,077.76	\$4,087.66	\$4,097.56	\$4,107.46	\$4,117.36	\$4,127.26	\$4,137.16	\$4,147.06

Year	0	1	2	3	4	5	6	7	8	9	10	11	12
Cost	(5800.00)	(1188.00)	(1188.00)	(1188.00)	(1188.00)	(1188.00)	(1188.00)	(1187.00)	(1186.00)	(1185.00)	(1184.00)	(1183.00)	(1182.00)
Gain	\$ -	\$ 580.00	\$ 640.80	\$ 695.52	\$ 744.77	\$ 789.09	\$ 828.98	\$ 864.88	\$ 897.10	\$ 925.99	\$ 951.89	\$ 975.10	\$ 995.89
Total	(5800.00)	(6408.00)	(6955.20)	(7447.68)	(7890.91)	(8289.82)	(8648.84)	(8970.95)	(9259.86)	(9518.87)	(9750.99)	(9958.89)	(10145.00)

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References Page | 92