

Appendix A.

Appendix A . Table 1. Raw single-ingredient beef products affected by nutrition labeling requirements.

	Types of Product						
Beef consumed at home	All beef	Processed	Ground	Stew	Steak	Beef dish	Other cuts
Pounds/capita	43.13	6.46	13.81	6.6	9.68	3.88	2.69
Percent of product subject labeling requirements		0.0	0.0	100	100	0.0	100
Total amount ¹ (billion lbs.)	5.47			1.903	2.792		.776

1. Based on a U.S. population in 2002 of 288.4 million

Source: Christopher Davis and Biing-Hwan Lin. "Factors Affecting U.S. Beef Consumption". LDP-M-135-02. Economic Research Service, USDA. October, 2005. Washington, DC.

Discussion of Appendix A Table 1.

The total amount of beef consumed per capital is 67.5 pound annually. Of that amount, 43.13 pounds is consumed at home. It is assumed that consumers purchase beef consumed at home from grocery stores or other retail establishments. Cooked or multi-ingredient beef dish products (that are not ground or chopped) are not subject to the rule. The amount of product subject to the rule is accounted for elsewhere. The total amount of raw, single-ingredient beef product subject to the rule is estimated at 5.47 billion pounds.

Appendix A. Table 2. Raw, single ingredient pork products affected by nutrition labeling requirements.

	Types of Product						
Fresh Pork	Total Fresh	Chops	Steak	Ribs	Fresh Ham	Fresh Nonspec-ified	Offal
Pounds/capita	19.2	5.5	1.9	1.9	2.5	6.7	0.8
Percent consumed at home	81.8						
Percent of product subject labeling requirements		100	100	.25	0.0	0.0	0.0
Amount ¹ (billion lbs.)	1.858	1.298	.448	.112			

1. Based on a U.S. population in 2002 of 288.4 million

Source: Christopher Davis and Biing-Hwan Lin. "Factors Affecting U.S. Pork Consumption". LDP-M-130-1 Economic Research Service, USDA. May, 2005 Washington, DC.

Discussion of Appendix A. Table 2.

Total annual per capita pork consumption is 51.5 pounds. Of this amount 19.2 pounds is purchased as raw, single-ingredient product. The remainder is cooked or multi-ingredient product and is not subject to the rule. Nearly 82 percent of fresh product is consumed at home. The remainder is consumed at a food service establishments. All major cuts of single- ingredient, raw pork and beef products are subject to the rule, unless an exemption applies. FSIS assumes that twenty-five percent of fresh (raw) ribs are subject to the rule as the remainder is assumed to be sold with ingredients, such as sauces, added. Fresh non-specified products are assumed to largely (67%) consist of ground or chopped product.

Appendix A. Table 3. Raw, single-ingredient chicken products affected by nutrition labeling requirements.

	Total	Grocery and retail outlets ²	Food service, fast food outlets ³	Deboned for further processing, including ground ⁴	Ground ⁵
		Share of broilers for major markets			
Percent of total ¹		25	29	46	
Pounds/capita		20.25	23.49	37.26	1.86
Percent of product subject to labeling requirements		80	0.0	50	
Amount ⁶ (billion pounds)	10.103	4.730		5.373	

1 Source: National Chicken Council. <http://www.nationalchickencouncil.com/statistics>

2 Primarily fresh, unprepared parts/portions prepackaged for supermarkets' meat department. Size ranges from 4.21 to 5.25 pounds, liveweight.

3 Primarily cup-up parts for fried chicken and similar. May also include Cornish hens. Size is 4.2 pounds and smaller, liveweight.

4 May also include young, heavy roasters for retail grocery, Size is 5.26 pounds and larger, liveweight.

5 Ground chicken is assumed to be 5% of the category: "Deboned for further processing, including ground,"

6 Total consumption is based on a total U.S. population of 288.4 million.

Discussion of Appendix A. Table3.

Total annual per capita chicken consumption is 82 pounds. Of this amount 20.25 pounds is purchased from grocery stores and other retail outlets. Half of the broilers deboned for further processing are assumed to be single-ingredient raw product. The remainder is cooked or multi-ingredient product and is not subject to the rule. Based on this information, total annual consumption of single-ingredient chicken products is 10.1 billion pounds.

Appendix A. Table 4. Raw, single-ingredient turkey products affected by nutrition labeling requirements.

	Grocery and retail outlets	Commodity outlets	Food service outlets	Exports
	Share of Product Distribution			
Percent of total ¹	46.8	27.7	15.1	10.5
Percent of Domestic Consumption	52.3	30.9	16.7	
Pounds/capita	9.26	3.24	2.96	
Percent of product subject to labeling requirements	80	0.0	0.0	
Amount ² (billion pounds)	2.136			

1 Source: National Turkey Federation at <http://www.eatturkey.com/consumer>

2 Total consumption is based on a total U.S. population of 288.4 million.

Discussion of Appendix A. Table 4.

Total annual per capita turkey consumption is 17.7 pounds. Of this amount, 9.26 pounds is purchased from grocery stores and other retail outlets. Eighty percent of turkey products sold at these establishments are assumed to be single-ingredient products. The total amount of major cuts of single-ingredient turkey products subject to labeling requirements is estimated at 2.136 billion pounds.

Appendix A. Table 5. Derivation of Lives Saved for Composite Scenario

Year	1	2	3	4	5	6	7	8	9	10	Average- Years 1-10
Scenario 1	0.0	0.0	28.6	28.6	28.6	28.6	28.6	57.2	57.2	57.2	31.5
Scenario 2	0.0	0.0	0.0	0.0	0.0	28.6	28.6	28.6	28.6	28.6	14.3
Scenario 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	28.6	5.7
Composite	0.0	0.0	9.5	9.5	9.5	19.1	19.1	28.6	38.2	38.2	17.2
Year	11	12	13	14	15	16	17	18	19	20	Average- Years 1-20
Scenario 1	57.2	57.2	114.5	114.5	114.5	114.5	114.5	114.5	114.5	114.5	67.3
Scenario 2	57.2	57.2	57.2	57.2	57.2	114.5	114.5	114.5	114.5	114.5	50.1
Scenario 3	28.6	28.6	28.6	57.2	57.2	57.2	57.2	57.2	114.5	114.5	32.9
Composite	47.7	47.7	66.8	76.3	76.3	95.4	95.4	95.4	114.5	114.5	50.1

Appendix A. Table 6. Derivation of the Value of Lives Saved for the Composite Scenario

Year	Value of Life	1	2	3	4	5	6	7	8	9	10	Present Value	
												3 percent	7 percent
\$Million													
Scenario 1	5.0	0.0	0.0	47.7	47.7	47.7	95.4	95.4	143.1	190.8	190.8		
Scenario 2	5.5	0.0	0.0	52.5	52.5	52.5	105.0	105.0	157.4	209.9	209.9		
Scenario 3	6.5	0.0	0.0	62.0	62.0	62.0	124.0	124.0	186.1	248.1	248.1		
Composite	5.6	0.0	0.0	54.1	54.1	54.1	108.1	108.1	162.2	216.3	216.30		
Year		11	12	13	14	15	16	17	18	19	20		
Scenario 1	5.0	238.5	238.5	333.9	381.7	381.7	477.1	477.1	477.1	572.5	572.5		
Scenario 2	5.5	262.4	262.4	367.3	419.8	419.8	524.7	524.7	524.7	629.7	629.7		
Scenario 3	6.5	310.1	310.1	434.1	496.1	496.1	620.1	620.1	620.1	744.2	744.2		
Composite		270.3	270.3	378.5	432.5	432.5	540.7	540.7	540.7	648.8	648.80	3,694.4	2,176.7

Appendix B. Table 1

Cost Estimates of Signage for Major Cuts of Meat and Poultry Products - Retail Stores (see note #1 below)

Labor Costs (assume recur every 2 years)

	Small Stores	Large Stores	Total Stores	
Number of affected stores	51,431	23,479	74,910	Source: see # Stores Table
Hourly wage estimates	\$21.11	\$21.11	\$21.11	Source: U.S. Dept. of Labor, 2002
Number of hours per store	0.5	0.5	0.5	Source: see note #3 below
Total labor costs	\$542,854	\$247,821	\$790,675	

Signage Costs (assume recur every 2 years)

	Small Stores	Large Stores	Total Stores	
Number of affected stores	51,431	23,479	74,910	Source: see # Stores Table
Signs (3 total per store)	\$28.00	\$28.00	\$28.00	Source: see note #4 below
Sign frames (3 total per store) (3 @ \$12.39)	\$37.17	\$37.17	\$37.17	Source: see note #5 below
Sign cost per store	\$65.17	\$65.17	\$65.17	
Total signage costs	\$3,351,758	\$1,530,126	\$4,881,885	

Total Costs (assume recur every 2 years) \$3,894,612 \$1,777,947 \$5,672,560

- Notes:
- (1) We assume these costs recur every two years because signs and frames wear out and need replacement.
 - (2) Retail Diagnostics Inc. (RDI) Survey October 1999
 - (3) Assumes minimum time 0.3 hours; most-likely time 0.5 hours; maximum time 0.7 hours, in a triangular distribution
 - (4) FMI website (FMI.org); one sign each for (1) beef & veal, (2) pork & lamb, and (3) poultry; prices for non-members - 2006 costs include shipping costs
 - (5) Hubert.com for 8.5x11 inch metal frames with stem - 2006 costs include shipping costs

Appendix B. Table 2

Cost Estimates for Labeling Ground Product: Processing Establishments

Cost of Redesigning Labels (one-time)	Fed. Large & Small	State Small						
Number of small and large establishments that grind meat	1,008	41						Source: PBIS, April 2006 (see # Plants Table)
Number of companies that own grinding establishments	363	41						Source: see note #3 below
Average number of products per company	6.6	6.6						Source: Based on IRI scanner data (see note #1 below)
Total number of prepackaged ground products	2,398	271						
	Fed-Inspected Large & Small Firms				State-Insp. Small Firms			
	Low	Mid	High	Low	Mid	High		
Per label costs of redesigning labels	\$929	\$1,557	\$2,383	\$929	\$1,557	\$2,383	Source: FDA Label Costs Table	
Per label costs of nutrition analysis	\$599	\$690	\$787	\$599	\$690	\$787	Source: FDA Label Costs Table	
	\$1,528	\$2,247	\$3,170	\$1,528	\$2,247	\$3,170		
Total One-Time Costs	\$3,664,522	\$5,387,394	\$7,602,515	\$413,519	\$607,935	\$857,898		
Cost of Larger Labels (ongoing)	Fed. Large & Small	0.0500%			State Small		Source: see note #9 below	
Number of packages of ground M&P packaged by processors	484,105,275				242,053		Source: See Package Volume Table	
Cost per label for larger label	\$0.005				\$0.005		Source: See note #2 below	
Total Ongoing Costs	\$2,420,526				\$1,210			

- Notes:
- (1) IRI scanner data
IRI scanner data includes data on frozen ground meat and poultry products=3.3 products/company
Assumed companies would produce an equal number of fresh ground meat and poultry products=6.6 products/company
- (2) Average cost of blank label. Minimum cost of \$0.002; most-likely cost of \$0.005; maximum cost of \$0.008 of a triangular distribution.
Blank labels that will be printed on-site. Purchased in quantities. Includes labor cost to apply printed label to package.
- (3) Based on estimate of 3 establishments per federally-inspected company, Muth et al., 2003, JAFIO;
plus small state-inspected establishments/companies PBIS 2006
- (4) National Cattlemen's Beef Association (NCBA) National Meat Case Study in 2004
- (5) Ongoing costs for larger labels could be reduced if establishments print nutrition facts directly on product overwrap.
- (6) Med values are taken as the most likely value of a triangular distribution
- (7) Low values are taken as the minimum value of a triangular distribution
- (8) High values are taken as the maximum value of a triangular distribution
- (9) The proportion of packages associated with small firms is unknown but expected to be small

Appendix B. Table 3

Cost Estimates for Labeling Ground Product: Retail Stores

Option 1: Assume nutrition facts will be printed using a scale printer.

Cost of Upgrading or Replacing Scale & Printer Systems (recur after 5 years)

Number of affected retail stores of large firms	23,479	Source: See # Stores Table
Number of scale printers for M&P products	1.5	Source: NCBA study by D. Amstein
Total number of scale printers in retail stores of large firms	35,219	
Cost of upgrading or replacing scale & printer systems (per system)	\$1,600	Source: NCBA study by D. Amstein
Total upgrade or replacement costs	\$56,349,600	\$2,400 per store

Cost of Redesigning Larger Blank Store Labels for Use in Scale & Printer Systems (one-time)

Number of affected grocery stores & meat market firms	255	Source: See # Stores Table		
Number of affected warehouse store firms	11	Source: See # Stores Table		
Total # affected retail firms	266			
	Low	Mid	High	
Label redesign costs	\$929	\$1,557	\$2,383	Source: See FDA Label Costs Table
Total label redesign costs	\$247,231	\$414,074	\$634,003	

Cost of Nutrition Analysis (one-time)

Number of affected grocery stores & meat market companies	255	Source: See # Stores Table
Number of products packaged in the store/company	4.6	Source: See Store Counts Table
Total affected grocery stores & meat market products	1,166	rounded value

Number of affected warehouse store companies	11	Source: See # Stores Table
Number of products packaged in store/company	1.3	Source: See Store Counts Table
Total affected warehouse store products	15	

Total number of store packaged unique labels	1,180	rounded value
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	Low	Mid	High	
Per label costs of nutrition analysis	\$599	\$690	\$787	Source: See FDA Label Costs Table
Total of above per label change (one-time)	\$1,528	\$2,247	\$3,170	
Total nutrition analysis costs	\$706,716	\$814,406	\$928,827	

Total One-Time 1st Year Costs	\$57,303,547	\$57,578,080	\$57,912,429
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Number of scale printers	35,219	Source: See above calculation at cell B8
Annual maintenance cost per scale printer	\$144	Source: See note #5 below.
Number of packages of ground M&P packaged by retailers	1,452,315,826	Source: See Package Volume Table
Cost of larger label	\$0.005	Source: See note #2 on Ground-Plants Table
Total Ongoing Costs	\$12,333,043	

Coments: Cost to upgrade scale and printer systems per store is \$2,400 (1,600 x 1.5)

Option 2: Assume nutrition facts will be preprinted on a sticker applied at retail.
Cost of Designing Separate Nutrition Facts Stickers (one-time)

Total number of store packaged unique labels	1,180	rounded value	Source: See above under Cost of Nutrition Analysis	
	Low	Mid	High	
Per label costs of redesigning labels	\$929	\$1,557	\$2,383	Source: See FDA Label Costs Table
Per label costs of nutrition analysis	\$599	\$690	\$787	Source: See FDA Label Costs Table
Total One-Time Cost of Above per Label	\$1,528	\$2,247	\$3,170	
Total One-Time Costs	\$1,803,808	\$2,651,867	\$3,742,229	
Number of packages of ground meat & poultry packaged by retailers	1,452,315,826	Source: See Package Volume Table		
	Low	Mid	High	
Cost of Purchasing and Applying Labels	0.0160	0.0293	0.0422	Source: See FDA Sticker Costs Table
Total Ongoing Costs	\$23,187,420	\$42,510,270	\$61,281,038	

- Notes:
- (1) Low values are taken as the minimum value of a triangular distribution of costs
 - (2) Med values are taken as the most likely value of a triangular distribution of costs
 - (3) High values are taken as the maximum value of a triangular distribution of costs
 - (4) National Cattlemen's Beef Association National Meat Case Study in 2004
 - (5) RTI's Label Model; Hobertcorp.com, 2003; 6% of \$2400 (cost of maintenance agreement per store)

Appendix B. Table 4

Numbers of Active Federally-Inspected and State-inspected Establishments that Grind Meat and Poultry:

Establishment Size	Number of Active Federally-Inspected Establishments	Source: See note #1 below
Very Small	1,433	
Small	858	
Large	109	
Total	2,400	

Establishment Size	Number of Active State Establishments	Source: See note #2 below
Very Small	632	
Small	41	
Large	0	
Total	673	

Notes:

(1) Source: FSIS PBIS, April 2006. These federally-inspected establishments have 03B HACCP codes for grinding meat or poultry.

(2) Source: FSIS PBIS, April 2006. These state-inspected establishments have 03B HACCP codes for grinding meat or poultry.

About 41 state-inspected establishments/companies are small and could potentially be affected.

Appendix B. Table 5

Number of Retail Firms and Establishments (Stores), 2002

NAICS Code	Description	Firm Size Category	# Firms	# Establishments (Stores)	Sales (\$1000s)		
NAICS 445110	Supermarkets and other grocery (except convenience) stores	500-999	110	1,245	11,135,953		
		1000+	143	19,189	299,476,731		
		Sub-total Large	253	20,434	310,612,684	0.78589586	proportion of sales for large firms
		Total All Sizes	42,318	66,150	395,233,897		
NAICS 445210	Meat Markets	500-999	1	46	1,327,181	0.3	proportion of sales for 500-999 sized firms (estimated)
		1000+	1	96	1,769,575	0.4	proportion of sales for 1000+ firms (estimated)
		Sub-total Large	2	142	3,096,757	0.7	proportion of sales for large firms (estimated)
		Total All Sizes	5,354	5,848	4,423,938	756,487	per establishment, on average
NAICS 452910	Warehouse Clubs & Superstores	500-999	2	5	164,627	32,925,301	per establishment (estimated), on average
		1000+	9	2,898	190,835,042	65,850,601	per establishment, on average
		Sub-total Large	11	2,903	190,999,669	0.99867857	proportion of sales for large firms
		Total All Sizes	16	2,912	191,252,396		
Total affected for ground product labeling		Total Large	266	23,479	504,709,109	0.85412146	proportion of sales for large firms
Total affected for POP labeling		Total All Sizes	47,688	74,910	590,910,231		
Total large & non-compliant wavered		Large & Small	12,122		0.854	proportion of sales for large firms	
Source: U.S. Department of Commerce, U.S. Bureau of the Census - 2002 Economic Census. November 2005. "Establishment and Firm Size: Retail Trade." EC02-44SS-SZ.							

Note: Estimates are made when the Census could not disclose because too few firms are in the size category.
For meat markets, sales for the 500-999 and 1000+ categories (yet are estimated) also not disclosed, thus we included them with the sub-total for large.
For warehouse stores, sales for the 500-900 category were not disclosed (yet are estimated) but are included in the total.

Appendix B. Table 6

Per Unit Cost Estimates for Designing/Redesigning Labels (assume one color change, flexography printing method):

	2001 Costs			inflator	2005 Costs		
	Low	Mid	High		Low	Mid	High
Administrative Costs	\$120	\$280	\$440	1.140416	\$137	\$319	\$502
Graphic Design	\$300	\$450	\$600		\$342	\$513	\$684
Prepress Activities	\$245	\$352	\$550		\$279	\$401	\$627
Engraving	\$150	\$283	\$500		\$171	\$323	\$570
Total/SKU	\$815	\$1,365	\$2,090		\$929	\$1,557	\$2,383
NLEA Panel Analysis	\$525	\$605	\$690		\$599	\$690	\$787
Totals of above	\$1,340	\$1,970	\$2,780		\$1,528	\$2,247	\$3,170

Source: Muth, M.K., E.C. Gledhill, and S.A. Karns. January 2003. "FDA Labeling Cost Model." Prepared by RTI International for FDA/CFSAN.

Notes:

- (1) Estimates are per unique package or label (or SKU) and are in 2001 dollars.
- (2) Assumed one-color change because the FDA labeling cost model assumes one color for nutrition facts and ingredient lists.
- (3) Assumed flexography printing method because this was the most common method we found in examining ground meat labels and packages.
- (4) Assumed no discarded inventory costs because manufacturers could deplete existing labels/packaging within the compliance period.
- (5) Assumed no market testing costs for redesigned labels.
- (6) Administrative costs include paperwork burden costs.
- (7) Inflator is the PPI for 2005 divided by the PPI for 2001 (PPI for total manufacturing industries, U.S. Department of Labor, extracted 2/06)
- (8) NLEA panel analysis costs include the costs of preparing and shipping a refrigerated sample to the testing lab.
- (9) Mid values are taken as the most likely value of a triangular distribution of costs
- (10) Low values are taken as the minimum value of a triangular distribution of costs
- (11) High values are taken as the maximum value of a triangular distribution of costs

Appendix B. Table 7

Costs of Pressure Sensitive Labels:

	2001 Prices			inflator	2006 Prices		
	Low	Mid	High		Low	Mid	High
Sticker Costs	\$0.010	0.015	\$0.020	1.140416	\$0.011	\$0.017	\$0.023
Application Costs	\$0.004	0.011	\$0.017		\$0.005	\$0.012	\$0.019
Total/Label	\$0.014	\$0.026	\$0.037		\$0.016	\$0.029	\$0.042

Source: Muth, M.K., E.C. Gledhill, and S.A. Karns. January 2003. "FDA Labeling Cost Model." Prepared by RTI International.

- Notes:
- (1) Cost are per label.
 - (2) Assumed labels would be applied manually (\$15/hour loaded wage).
 - (3) Inflator is the PPI for 2006 divided by the PPI for 2001 (PPI for total manufacturing industries, U.S. Department of Labor, extracted 3/06)
 - (4) Mid values are taken as the most likely value of a triangular distribution of costs.
 - (5) Low values are taken as the minimum value of a triangular distribution of costs.
 - (6) High values are taken as the maximum value of a triangular distribution of costs.

Appendix B. Table 8

Ground Meat and Poultry Package Volume Estimates

Pounds of ground beef purchased/U.S. household	49.3	Source: NCBA's Meat Purchase Diary 2003
Number of U.S. households (millions), 2003	112.0	Source: US Census Bureau 2003 Estimate
Total pounds ground beef (millions)	5,521.6	
Other ground meat products, as a fraction of ground beef	0.123	Source: Based on AMI estimate of .123 pounds of other ground M&P for every pound of ground beef
Total pounds of other ground meat products (millions)	679.2	
Total pounds ground meat and poultry (millions)	6,200.8	
Average weight per package of meat and poultry (pounds)	2.7	rounded Source: NCBA's Meat Purchase Diary 2003
Total packages of ground meat and poultry (millions)	2,267.1	
% sales from large company stores	85.4%	Source: % sales from large company stores (see # Stores Tab)
Number of packages produced by non-exempt entities (millions)	1,936.4	Source: Total packages * % sales from large company stores (see # Stores Tab)
Proportion of packages sold as case ready	0.25	Source: NCBA's February 2001 survey of 7 major retail chains (cited in AMI's comments)
Proportion of packages packaged at retail	0.75	Source: NCBA's February 2001 survey of 7 major retail chains (cited in AMI's comments)
Total Packages of Ground M&P Packaged by Processors (millions)	484.1	rounded 484,105,275 packages
Total Packages of Ground M&P Packaged by Retailers (millions)	1,452.3	rounded 1,452,315,826 packages
check-sum total for pages:	1,936.4	rounded 1,936,421,101 packages

Note:
(1) In their comments the Animal Protection Unit estimates that 18.5% of ground beef is already ground when it arrives at the store.
This percentage appears consistent with the NCBA data (25%) if you include poultry, which is almost always ground before it arrives at the store.

Appendix B. Table 9

Store Count Data: Ground Products

	# Products	Store Brands				Safe Handling			Nutrition Facts		
		# Pkg'd at store	# Not Pkg'd at store	Total Store Brands	# National Brands	# on Label	# on Packaging	# Without	# on Label	# on Packaging	# Without
Grocery Stores											
Harris Teeter	17	2	9	11	6	14	3	0	14	2	1
Lowe's	8	2	2	4	4	5	3	0	3	3	2
Food Lion	10	4	3	7	3	9	1	0	5	1	4
Kroger	12	6	0	6	5	7	5	0	1	5	6
Whole Foods	8	8	0	8	0	8	0	0	2	0	6
Piggly Wiggly	8	5	0	5	3	5	3	0	2	3	3
Weaver	5	5	0	5	0	5	0	0	0	0	5
Street											
Averages	9.7	4.6	2.0	6.6	3.0	7.6	2.1	0.0	3.9	2.0	3.9
Median	8.0	5.0	0.0	6.0	3.0	na	na	na	2.0	2.0	4.0
Std.Dev.	3.86	2.15	3.32	2.37	2.31	na	na	na	4.74	1.82	1.95
Club Stores											
CostCo	7	0	2	2	5	2	5	0	0	5	2
Sam's Club	7	3	0	3	4	3	4	0	0	4	3
BJ's	6	1	4	5	1	5	1	0	--	--	--
Averages	6.7	1.3	2.0	3.3	3.3	3.3	3.3	0.0	0.0	4.5	2.5
Median	7.0	1.0	2.0	3.0	4.0	na	na	na	0.0	4.5	2.5
Std.Dev.	0.58	1.53	2.0	1.53	2.08	na	na	na	0	0.71	0.71

Source: Collected by RTI during April 2003

Note:
(1) "na" means not applicable for the analysis

Appendix B. Table 10. Summary Report of Simulation Results for Preferred Alternative 3 and Other Alternatives 2, 4, and 5

	Name	Worksheet	Cell	Minimum	Mean	Maximum	x1	p1	x2	p2	x2-x1	p2-p1
Output 1	1/all / Present Value of Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	K6	4.524489	7.7065	23.32659	5.911853	5%	10.69158	95%	4.779727	90%
Output 2	1/all / Present Value of Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	L6	4.698694	8.003221	24.22473	6.139475	5%	11.10323	95%	4.963759	90%
Output 3	1/all / Present Value of Option 1 Retail + Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	M6	70.79372	79.59664	138.2949	73.76441	5%	90.81413	95%	17.04971	90%
Output 4	1/all / Present Value of Option 1 Retail + Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	N6	73.51948	82.66132	143.6197	76.60455	5%	94.31071	95%	17.70617	90%
Output 5	1/all / Present Value of Option 2 + Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	O6	26.62024	62.33791	301.1663	37.74284	5%	112.2358	95%	74.493	90%
Output 6	1/all / Present Value of Option 2 + Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	P6	27.64519	64.73809	312.762	39.19603	5%	116.5572	95%	77.36119	90%
Output 7	1/only small / Present Value of Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	K7	0.3478134	0.5319847	0.7402734	0.4523729	5%	0.6180986	95%	0.1657256	90%
Output 8	1/only small / Present Value of Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	L7	0.3757022	0.574641	0.7996309	0.4886457	5%	0.6676598	95%	0.1790141	90%
Output 9	1/only small / Present Value of Option 1 Retail + Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	M7	3.622322	3.931981	4.274684	3.780463	5%	4.08602	95%	0.3055565	90%
Output 10	1/only small / Present Value of Option 1 Retail + Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	N7	3.912772	4.247261	4.617443	4.083593	5%	4.41365	95%	0.3300567	90%
Output 11	1/only small / Present Value of Option 2 + Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	O7	3.622322	3.931981	4.274684	3.780463	5%	4.08602	95%	0.3055565	90%
Output 12	1/only small / Present Value of Option 2 + Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	P7	3.912772	4.247261	4.617443	4.083593	5%	4.41365	95%	0.3300567	90%
Output 13	TOTALS / 6. Present Value of Option 1 Retail Costs (cols. a+d) (7%)	Alt#3_PVCosts	G28	238.854	312.7741	862.6877	260.3061	5%	411.0768	95%	150.7707	90%
Output 14	TOTALS / 7. Present Value of Option 1 Retail Costs (cols. a+d) (3%)	Alt#3_PVCosts	H28	320.7396	424.5332	1196.648	350.8678	5%	562.5464	95%	211.6786	90%
Output 15	TOTALS / 8. Present Value of Option 2 Retail Costs (cols. a+e) (7%)	Alt#3_PVCosts	I28	183.4665	564.3593	3150.617	299.0769	5%	1100.977	95%	801.8998	90%
Output 16	TOTALS / 9. Present Value of Option 2 Retail Costs (cols. a+e) (3%)	Alt#3_PVCosts	J28	255.8609	790.7017	4422.095	418.2226	5%	1544.257	95%	1126.034	90%
Output 17	TOTALS / 10. Present Value of Processing Plant Costs (cols. b+c) (7%)	Alt#3_PVCosts	K28	9.876256	35.28122	211.0778	17.769	5%	68.09151	95%	50.32251	90%
Output 18	TOTALS / 11. Present Value of Processing Plant Costs (cols. b+c) (3%)	Alt#3_PVCosts	L28	12.21997	47.69666	294.6017	23.10007	5%	93.85428	95%	70.75421	90%
Output 19	TOTALS / 12. Present Value of Option 1 Retail + Processing Plant Costs (cols. 1+3) (7%)	Alt#3_PVCosts	M28	253.0443	348.0554	1007.507	282.8855	5%	474.7921	95%	191.9066	90%
Output 20	TOTALS / 13. Present Value of Option 1 Retail + Processing Plant Costs (cols. 1+3) (3%)	Alt#3_PVCosts	N28	338.9907	472.2298	1397.966	380.7655	5%	650.2348	95%	269.4693	90%
Output 21	TOTALS / 14. Present Value of Option 2 Retail + Processing Plant Costs (cols. 2+3) (7%)	Alt#3_PVCosts	O28	197.8344	599.6406	3311.421	321.0251	5%	1164.679	95%	843.6543	90%
Output 22	TOTALS / 15. Present Value of Option 2 Retail + Processing Plant Costs (cols. 2+3) (3%)	Alt#3_PVCosts	P28	274.3269	838.3984	4646.199	447.1591	5%	1631.649	95%	1184.49	90%
Output 23	TOTALS / f. Present Value of POP Placards Costs (Retail) (column a) (7%)	Alt#3_PVCosts	G56	29.34454	31.06861	32.796	29.88411	5%	32.25296	95%	2.368847	90%
Output 24	TOTALS / g. Present Value of POP Placards Costs (Retail) (column a) (3%)	Alt#3_PVCosts	H56	40.4405	42.81648	45.19704	41.18409	5%	44.44867	95%	3.264576	90%
Output 25	TOTALS / h. Present Value of Modifying Product Labels Costs (Plants) (column b) (7%)	Alt#3_PVCosts	I56	3.461233	5.037241	6.986729	4.281801	5%	5.857973	95%	1.576172	90%
Output 26	TOTALS / i. Present Value of Modifying Product Labels Costs (Plants) (column b) (3%)	Alt#3_PVCosts	J56	3.5945	5.231188	7.255736	4.446661	5%	6.08352	95%	1.636858	90%
Output 27	TOTALS / j. Present Value of Larger Labels on Ground or Chopped Meat and Poultry Products Costs (Plants) (column c) (7%)	Alt#3_PVCosts	K56	4.967961	30.24398	206.231	12.74931	5%	63.10998	95%	50.36067	90%
Output 28	TOTALS / k. Present Value of Larger Labels on Ground or Chopped Meat and Poultry Products Costs (Plants) (column c) (3%)	Alt#3_PVCosts	L56	6.975498	42.46548	289.5682	17.90126	5%	88.61251	95%	70.71125	90%
Output 29	TOTALS / l. Present Value of Option 1 Labels Printed Costs (Retail) (column d) (7%)	Alt#3_PVCosts	M56	207.5623	281.7055	831.2629	229.2318	5%	379.9774	95%	150.7457	90%
Output 30	TOTALS / m. Present Value of Option 1 Labels Printed Costs (Retail) (column d) (3%)	Alt#3_PVCosts	N56	277.6156	381.7167	1153.341	308.0403	5%	519.7181	95%	211.6778	90%
Output 31	TOTALS / n. Present Value of Option 2 Labels Preprinted Costs (Retail) (column e) (7%)	Alt#3_PVCosts	O56	152.2856	533.2907	3120.23	268.0049	5%	1069.73	95%	801.7252	90%
Output 32	TOTALS / o. Present Value of Option 2 Labels Preprinted Costs (Retail) (column e) (3%)	Alt#3_PVCosts	P56	212.8896	747.8853	4380.218	375.3708	5%	1501.001	95%	1125.63	90%
Output 33	TOTALS / 1. POP Materials - Undiscounted Costs	Alt#2_PVCosts	B28	155.7106	165.6335	174.8761	160.6553	5%	170.6187	95%	9.96344	90%
Output 34	TOTALS / 2. Present Value of POP Materials Costs (column 1) Discounted at 3%	Alt#2_PVCosts	C28	115.8097	123.1899	130.0641	119.4873	5%	126.8977	95%	7.410316	90%
Output 35	TOTALS / 3. Present Value of POP Materials Costs (column 1) Discounted at 7%	Alt#2_PVCosts	D28	82.47989	87.73607	92.63188	85.09909	5%	90.37672	95%	5.277634	90%
Output 36	17. Present Value Option 1 Labels on Cuts and Ground and Chopped Products Costs (Retail+ Processing Plants) (column 16) (7%)	Alt#4_PVCosts	AE13	539.8585	813.039	1541.749	673.6125	5%	974.4242	95%	300.8116	90%
Output 37	18. Present Value Option 1 Labels on Cuts and Ground and Chopped Products Costs (Retail+ Processing Plants) (column 16) (3%)	Alt#4_PVCosts	AF13	719.7699	1103.973	2123.141	907.9171	5%	1330.837	95%	422.9202	90%
Output 38	TOTALS / 4. Present Value of Retail Cuts Costs (column 1) (7%)	Alt#5_PVCosts(all)	G28	392.3612	589.2578	783.6083	474.1151	5%	704.5154	95%	230.4003	90%
Output 39	TOTALS / 5. Present Value of Processing Plant Cuts Costs (column 2) (7%)	Alt#5_PVCosts(all)	M28	77.93051	151.3201	226.1671	102.357	5%	200.2057	95%	97.84871	90%
Output 40	Option5TOTALS / Present Value Retail + Processing Plant Costs (7%)	Alt#5_PVCosts(all)	N28	498.9416	740.5779	977.5933	616.4286	5%	864.6799	95%	248.2513	90%
Output 41	TOTALS / 7. Present Value of Retail Cuts Costs (column 1) (3%)	Alt#5_PVCosts(all)	T28	525.8773	803.3177	1078.437	638.263	5%	968.1425	95%	329.8795	90%
Output 42	TOTALS / 8. Present Value of Processing Plant Cuts Costs (column 2) (3%)	Alt#5_PVCosts(all)	U28	99.09669	200.636	303.6093	131.9657	5%	269.2901	95%	137.3244	90%
Output 43	Option5TOTALS / Present Value Retail + Processing Plant costs (3%)	Alt#5_PVCosts(all)	V28	665.6229	1003.954	1339.583	826.8002	5%	1181.181	95%	354.3809	90%
Output 44	TOTALS / 14. Present Value of Option 1 Labels on Ground and Chopped Products Costs (Retail+ Processing Plants) (column 13) (7%)	Alt#5_PVCosts(all)	AB28	121.2044	215.9573	875.1605	150.8434	5%	342.5892	95%	191.7457	90%
Output 45	TOTALS / 15. Present Value of Option 1 Labels on Ground and Chopped Products Costs (Retail+ Processing Plants) (column 13) (3%)	Alt#5_PVCosts(all)	AC28	161.9806	294.864	1220.258	203.4353	5%	472.6021	95%	269.1668	90%
Output 46	TOTALS / 17. Present Value Option 1 Labels on Cuts and Ground and Chopped Products Costs (Retail+ Processing Plants) (column 16) (7%)	Alt#5_PVCosts(all)	AE28	665.9578	956.5352	1651.604	808.3594	5%	1127.418	95%	319.0583	90%
Output 47	TOTALS / 18. Present Value Option 1 Labels on Cuts and Ground and Chopped Products Costs (Retail+ Processing Plants) (column 16) (3%)	Alt#5_PVCosts(all)	AF28	886.6022	1298.818	2274.423	1088.075	5%	1540.351	95%	452.2767	90%

Input 1	Number of hours per store / Small Businesses	Major Cuts	B8	0.3008029	0.5	0.6990761	0.3632365	5%	0.636751	95%	0.2735145	90%
Input 2	Number of hours per store / Large Businesses	Major Cuts	C8	0.3011787	0.5	0.6990944	0.363239	5%	0.6367496	95%	0.2735105	90%
Input 3	Number of hours per store / Total	Major Cuts	D8	0.3009402	0.5	0.6994433	0.3632387	5%	0.6367446	95%	0.2735059	90%
Input 4	Average number of products per company / Large & Small Firms	Ground-Plants	B7	5.602516	6.6	7.595329	5.916198	5%	7.283714	95%	1.367516	90%
Input 5	Average number of products per company / Small Firms Only	Ground-Plants	C7	5.602384	6.6	7.596412	5.916222	5%	7.283737	95%	1.367515	90%
Input 6	Cost per label for larger label / Large & Small	Ground-Plants	B19	2.01E-03	0.005	7.98E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 7	Cost per label for larger label / Small Firm Only	Ground-Plants	D19	2.01E-03	0.005	7.98E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 8	Cost of larger label / Low	Ground-Stores	B43	2.01E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 9	Administrative Costs / Mid	FDA Label Costs	C5	120.667	280	439.7722	170.5935	5%	389.4023	95%	218.8088	90%
Input 10	Graphic Design / Mid	FDA Label Costs	C6	300.7239	450	599.1665	347.4256	5%	552.5579	95%	205.1322	90%
Input 11	Prepress Activities / Mid	FDA Label Costs	C7	245.206	351.6667	549.0533	260.1247	5%	483.4896	95%	223.3648	90%
Input 12	Engraving / Mid	FDA Label Costs	C8	150.0575	283.3334	499.8881	179.5797	5%	427.5426	95%	247.963	90%
Input 13	NLEA Panel Analysis / Mid	FDA Label Costs	C11	525.4388	605	689.8027	549.8729	5%	662.7495	95%	112.8766	90%
Input 14	Sticker Costs / Mid	FDA Sticker Costs	C4	1.00E-02	0.015	0.0199824	1.16E-02	5%	1.84E-02	95%	6.84E-03	90%
Input 15	Application Costs / Mid	FDA Sticker Costs	C5	4.02E-03	1.07E-02	1.70E-02	0.006133	5%	1.50E-02	95%	8.89E-03	90%
Input 16	Average weight per package of meat and poultry (pounds)	Package Volume	B10	0.5000975	2.735976	7.127759	1.171606	5%	4.351544	95%	3.179938	90%
Input 17	labor needed / 1. POP Materials - Undiscounted Costs	Alt#2_PVCosts	B36	0.300998	0.5	0.6992958	0.3632411	5%	0.6367509	95%	0.2735097	90%
Input 18	manual cost / 1. POP Materials - Undiscounted Costs	Alt#2_PVCosts	B39	97.5038	100	102.4844	98.29042	5%	101.7094	95%	3.418999	90%
Input 19	Mid	Alt#2_PVCosts	F57	0.5481475	0.614	0.6798027	0.5688669	5%	0.659126	95%	9.03E-02	90%
Input 20	Most-likely	Alt#4_PVCosts	C13	0.7504928	0.85	0.9494274	0.7816175	5%	0.9183722	95%	0.1367547	90%
Input 21	recurring labels @\$0.005 / 7. Present Value of Retail Costs (column 1) (3%)	Alt#5_PVCosts	T40	2.01E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 22	label @\$0.005 / 7. Present Value of Retail Costs (column 1) (3%)	Alt#5_PVCosts	T45	2.02E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 23	recurring labels @\$0.005 / 7. Present Value of Retail Costs (column 1) (3%)	Alt#5_PVCosts	T50	2.02E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 24	one-time redesign labels / mid-point	Alt#5_PVCosts	E54	1333.955	2014.667	2758.056	1541.316	5%	2519.301	95%	977.9844	90%
Input 25	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%)	Alt#5_PVCosts(all)	T40	2.01E-03	5.00E-03	7.98E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 26	label @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%)	Alt#5_PVCosts(all)	T45	2.00E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 27	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%)	Alt#5_PVCosts(all)	T50	2.01E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 28	packages @ / OMB mid-year discount factor 7%	Alt#5_PVCosts(all)	R59	2.02E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%

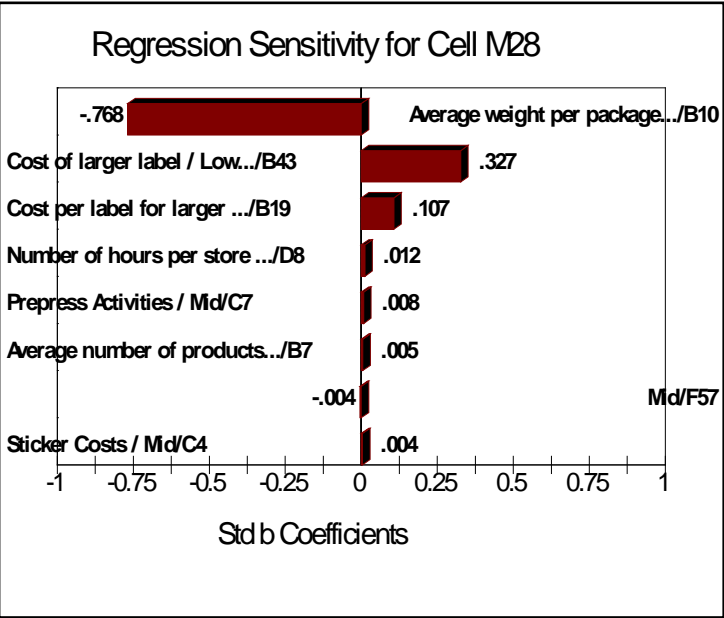
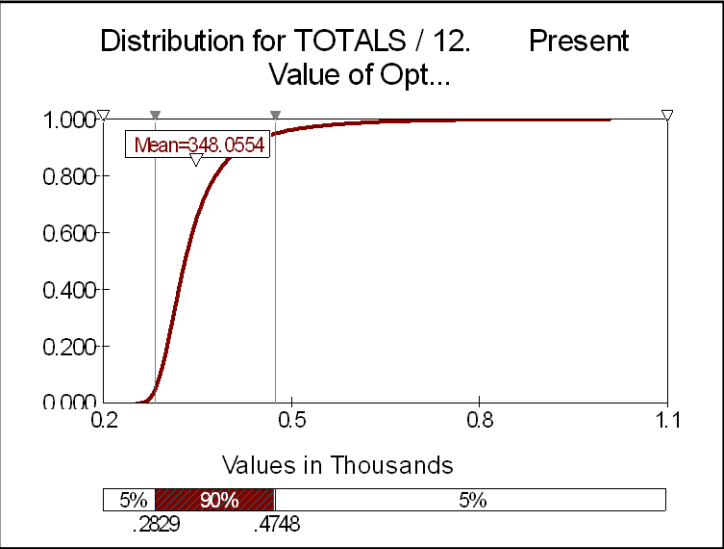
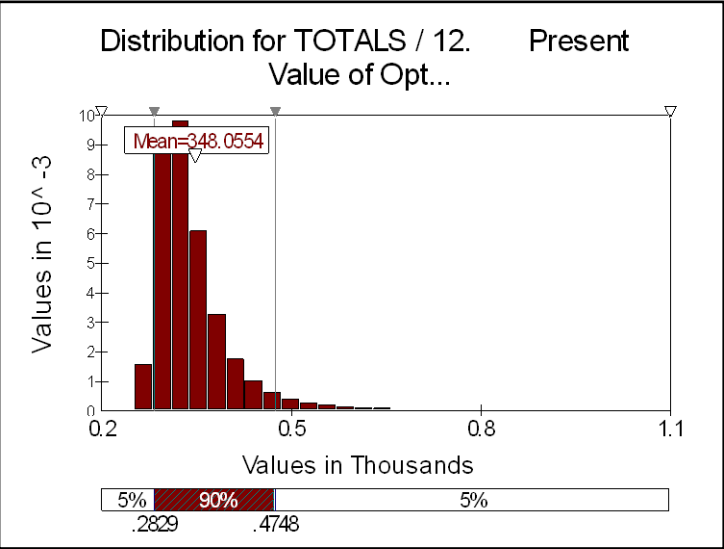
Appendix B.

Table 11.

Simulation Results for Alternative 3

TOTALS / 12. Present Value of Option 1 Retail

+ Processing Plant Costs (7%) / M28

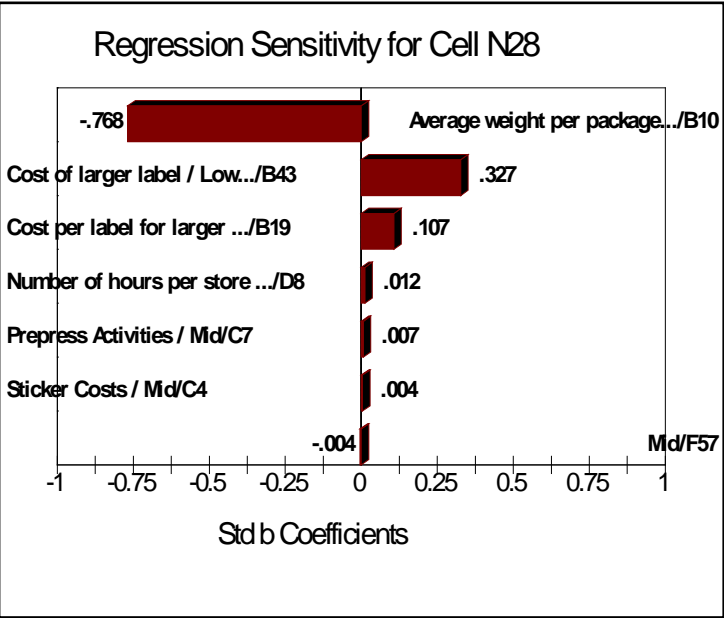
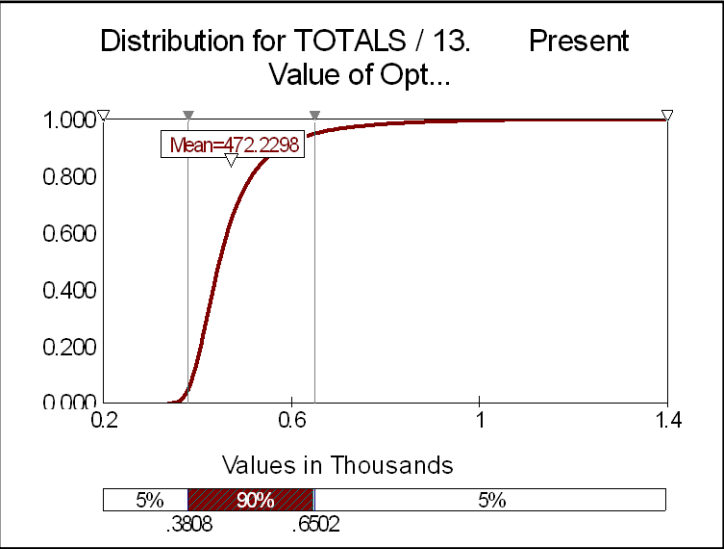
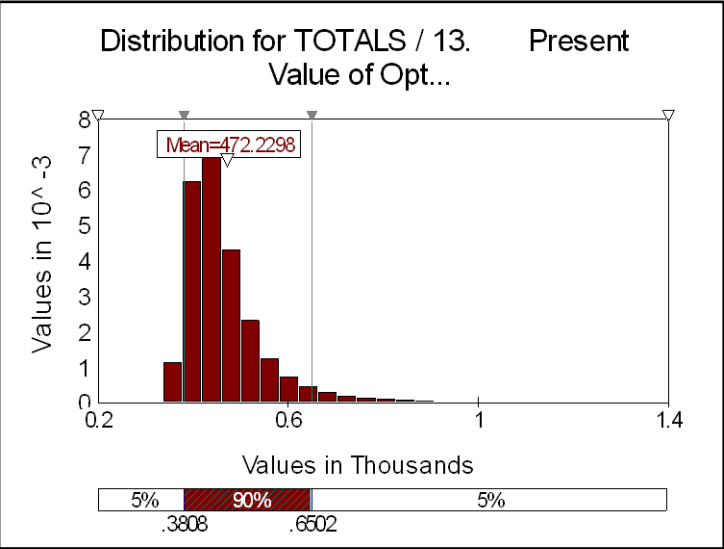


Summary Information	
Workbook Name	NutLabAt14Feb06 IV_23Mar06_Vd.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/24/2006 20:41
Simulation Stop Time	4/24/2006 20:44
Simulation Duration	00:02:12
Random Seed	1247717209

Summary Statistics			
Stati stic	Value	%tile	Value
Minim um	253.0443268	5%	282.8855286
Maxi mum	1007.507141	10%	290.5569458
Mean	348.0553744	15%	296.5293274
Std Dev	68.38035638	20%	301.6888123
Varia nce	4675.873139	25%	306.4390564
Skew ness	2.726449229	30%	311.1300964
Kurto sis	14.45048762	35%	315.7494202
Medi an	330.3052979	40%	320.3118896
Mode	315.6748047	45%	325.1310425
Left X	282.8855286	50%	330.3052979
Left P	5%	55%	335.9446106
Right X	474.7921448	60%	342.1224365
Right P	95%	65%	348.750824
Diff X	191.9066162	70%	356.8829041
Diff P	90%	75%	366.5531921
#Erro rs	0	80%	378.7944641
Filter Min		85%	395.3364258
Filter Max		90%	422.0244446
#Filde red	0	95%	474.7921448

Sensitivity			
Ran k	Name	Regr	Corr
#1	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.768	-0.864
#2	Cost of larger label / Low / \$B\$43	0.327	0.440
#3	Cost per label for larger label / Large & Small / \$B\$19	0.107	0.149
#4	Number of hours per store / Total / \$D\$8	0.012	0.017
#5	Prepress Activities / Mid / \$C\$7	0.008	0.000
#6	Average number of products per company / Large & Small Firms / \$B\$7	0.005	0.007
#7	Mid / \$F\$57	-0.004	-0.002
#8	Sticker Costs / Mid / \$C\$4	0.004	0.009
#9	Number of hours per store / Small Businesses / \$B\$8	0.000	-0.006
#10	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.010
#11	Average number of products per company / Small Firms Only / \$C\$7	0.000	-0.004
#12	Cost per label for larger label / Small Firm Only / \$D\$19	0.000	-0.003
#13	Administrative Costs / Mid / \$C\$5	0.000	0.009
#14	Graphic Design / Mid / \$C\$6	0.000	0.004
#15	Engraving / Mid / \$C\$8	0.000	0.004
#16	NLEA Panel Analysis / Mid / \$C\$11	0.000	0.006

Appendix B.
Table 12. Simulation Results for Alternative 3
TOTALS / 13. Present Value of Option 1 Retail
+ Processing Plant Costs (3%) / N28



Summary Information	
Workbook Name	NutLabAt14Feb06 IV_23Mar06_Vd.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/24/2006 20:41
Simulation Stop Time	4/24/2006 20:44
Simulation Duration	00:02:12
Random Seed	1247717209

Summary Statistics			
Statistic	Value	%tile	Value
Minimum	338.9906921	5%	380.7655029
Maximum	1397.966431	10%	391.5291748
Mean	472.2298217	15%	399.8813782
Std Dev	96.01141101	20%	407.1336365
Variance	9218.191044	25%	413.7871704
Skewness	2.726573257	30%	420.3884583
Kurtosis	14.45127701	35%	426.8584595
Median	447.2653809	40%	433.2864075
Mode	386.9847412	45%	440.00177
Left X	380.7655029	50%	447.2653809
Left P	5%	55%	455.2322998
Right X	650.2348022	60%	463.9013672
Right P	95%	65%	473.2038879
Diff X	269.4692993	70%	484.6853943
Diff P	90%	75%	498.1676636
#Errors	0	80%	515.3840942
Filter Min		85%	538.6594849
Filter Max		90%	576.0708618
#Filtered	0	95%	650.2348022

Sensitivity			
Rank	Name	Regr	Corr
#1	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.768	-0.864
#2	Cost of larger label / Low / \$B\$43	0.327	0.440
#3	Cost per label for larger label / Large & Small / \$B\$19	0.107	0.149
#4	Number of hours per store / Total / \$D\$8	0.012	0.017
#5	Prepress Activities / Mid / \$C\$7	0.007	-0.001
#6	Sticker Costs / Mid / \$C\$4	0.004	0.009
#7	Mid / \$F\$57	-0.004	-0.002
#8	Number of hours per store / Small Businesses / \$B\$8	0.000	-0.006
#9	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.010
#10	Average number of products per company / Large & Small Firms / \$B\$7	0.000	0.005
#11	Average number of products per company / Small Firms Only / \$C\$7	0.000	-0.004
#12	Cost per label for larger label / Small Firm Only / \$D\$19	0.000	-0.003
#13	Administrative Costs / Mid / \$C\$5	0.000	0.008
#14	Graphic Design / Mid / \$C\$6	0.000	0.002
#15	Engraving / Mid / \$C\$8	0.000	0.002
#16	NLEA Panel Analysis / Mid / \$C\$11	0.000	0.006

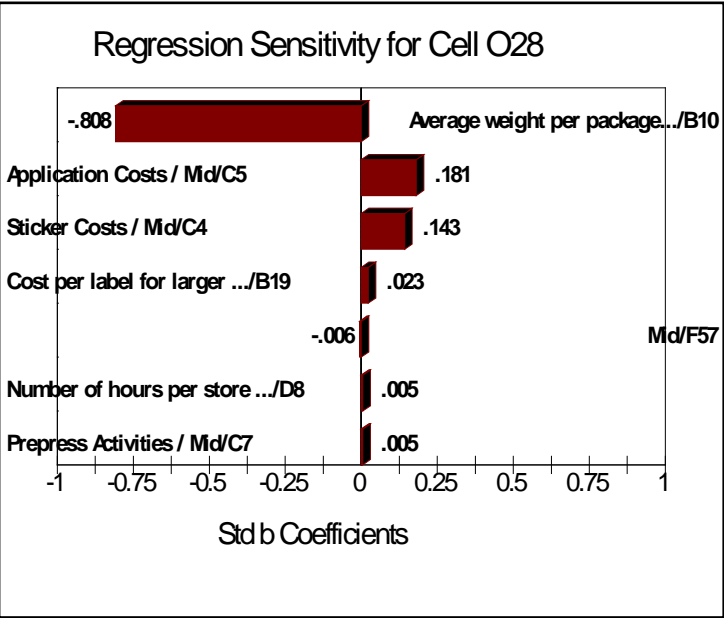
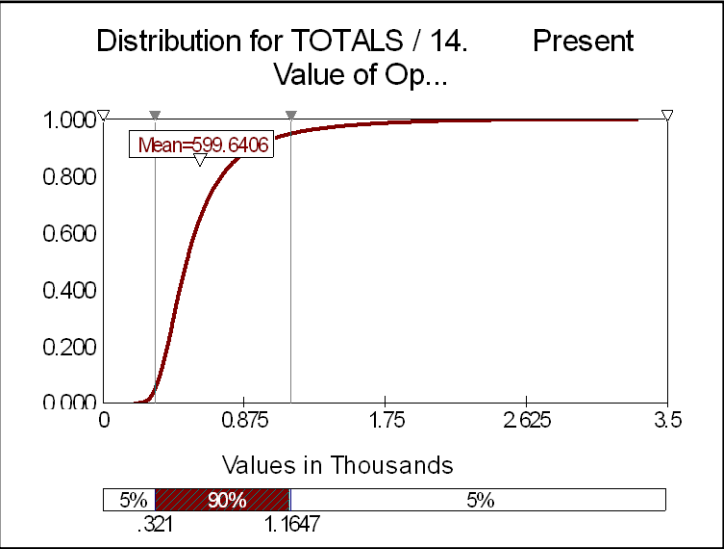
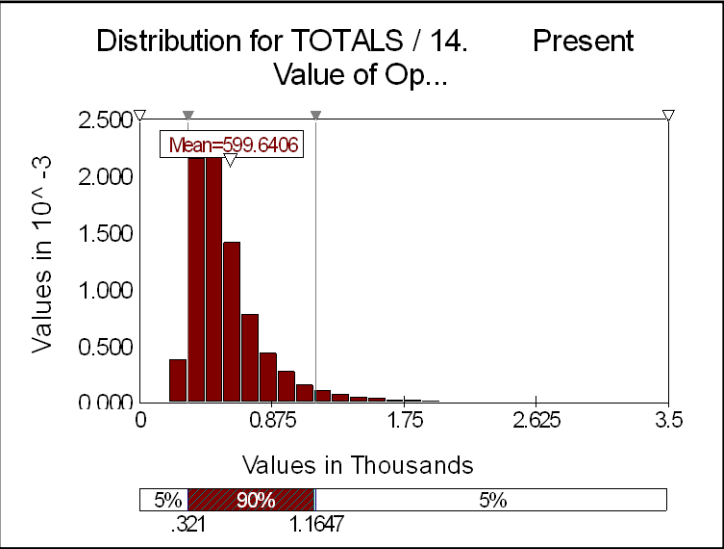
Appendix B.

Table 13.

Simulation Results for Alternative 3

TOTALS / 14. Present Value of Option 2 Retail

+ Processing Plant Costs (7%) / O28



Summary Information	
Workbook Name	NutLabAt14Feb06 IV_23Mar06_Vd.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/24/2006 20:41
Simulation Stop Time	4/24/2006 20:44
Simulation Duration	00:02:12
Random Seed	1247717209

Summary Statistics			
Stati stic	Value	%tile	Value
Minim um	197.8344116	5%	321.0251465
Maxi mum	3311.421143	10%	352.5499878
Mean	599.6405555	15%	376.3955078
Std Dev	300.7998421	20%	397.1846008
Varia nce	90480.545	25%	416.7479553
Skew ness	2.690983679	30%	435.5387268
Kurto sis	13.61728735	35%	454.0323181
Media n	517.4179688	40%	473.5823669
Mode	433.8913819	45%	495.0793457
Left X	321.0251465	50%	517.4179688
Left P	5%	55%	541.208313
Right X	1164.679443	60%	568.1164551
Right P	95%	65%	598.8766479
Diff X	843.6542969	70%	634.4973145
Diff P	90%	75%	677.4692993
#Erro rs	0	80%	734.5341187
Filter Min		85%	808.3357544
Filter Max		90%	928.8622437
#Filde red	0	95%	1164.679443

Sensitivity			
Ran k	Name	Regr	Corr
#1	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.808	-0.938
#2	Application Costs / Mid / \$C\$5	0.181	0.240
#3	Sticker Costs / Mid / \$C\$4	0.143	0.201
#4	Cost per label for larger label / Large & Small / \$B\$19	0.023	0.040
#5	Mid / \$F\$57	-0.006	-0.001
#6	Number of hours per store / Total / \$D\$8	0.005	0.000
#7	Prepress Activities / Mid / \$C\$7	0.005	-0.002
#8	Number of hours per store / Small Businesses / \$B\$8	0.000	-0.006
#9	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.014
#10	Average number of products per company / Large & Small Firms / \$B\$7	0.000	0.001
#11	Average number of products per company / Small Firms Only / \$C\$7	0.000	-0.004
#12	Cost per label for larger label / Small Firm Only / \$D\$19	0.000	-0.002
#13	Cost of larger label / Low / \$B\$43	0.000	0.002
#14	Administrative Costs / Mid / \$C\$5	0.000	0.004
#15	Graphic Design / Mid / \$C\$6	0.000	0.003
#16	Engraving / Mid / \$C\$8	0.000	-0.002

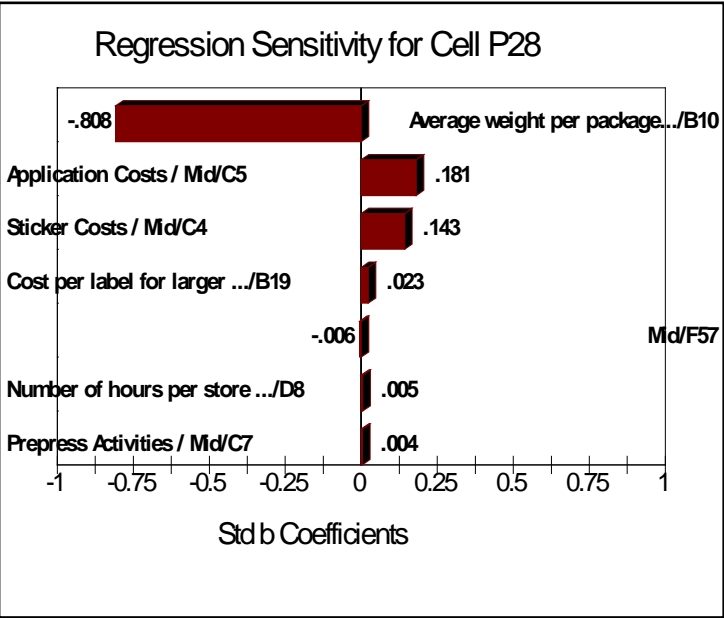
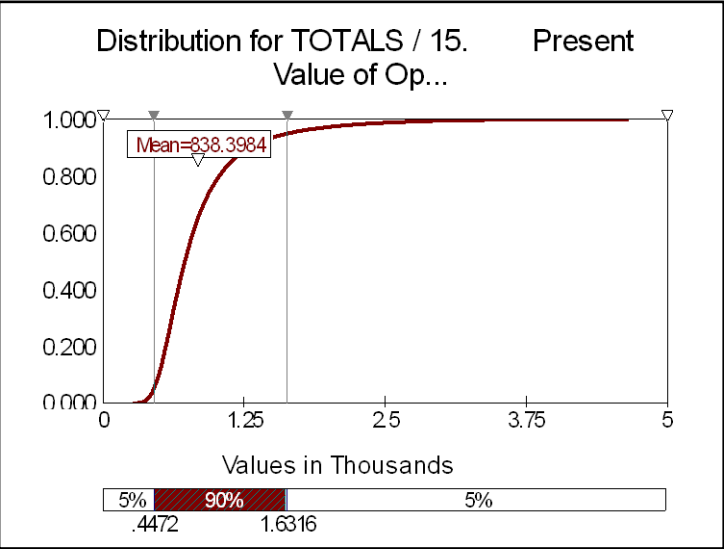
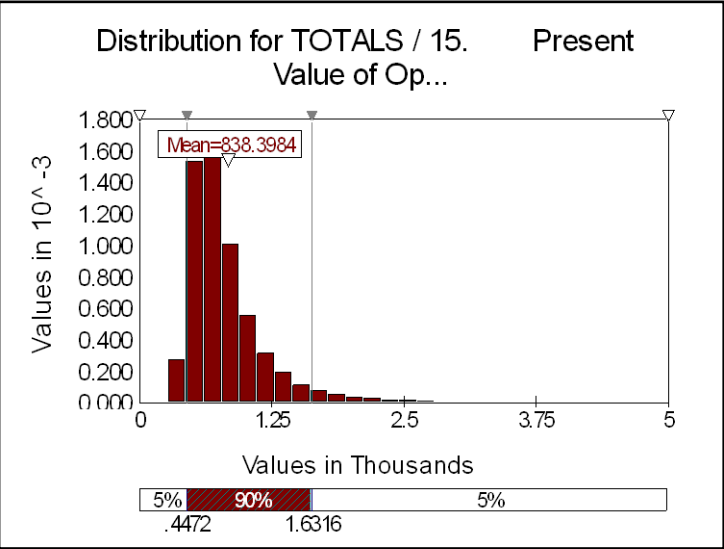
Appendix B.

Table 14.

Simulation Results for Alternative 3

TOTALS / 15. Present Value of Option 2 Retail

+ Processing Plant Costs (3%) / P28

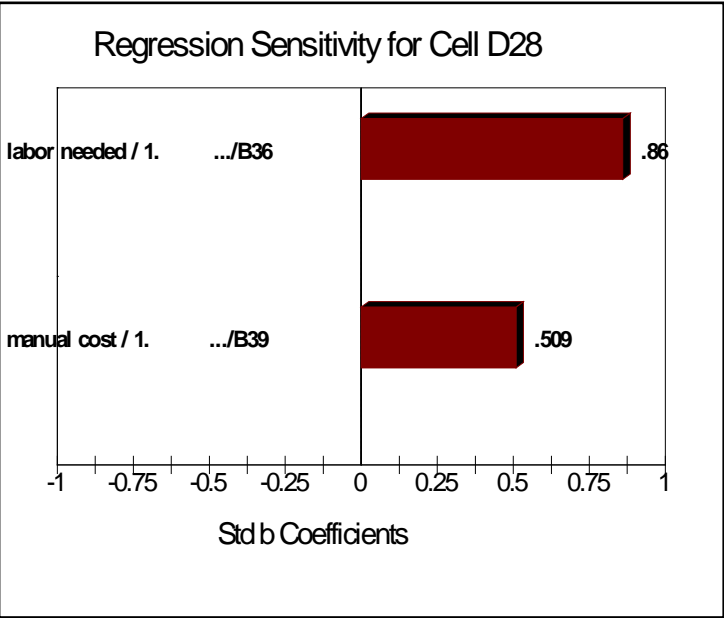
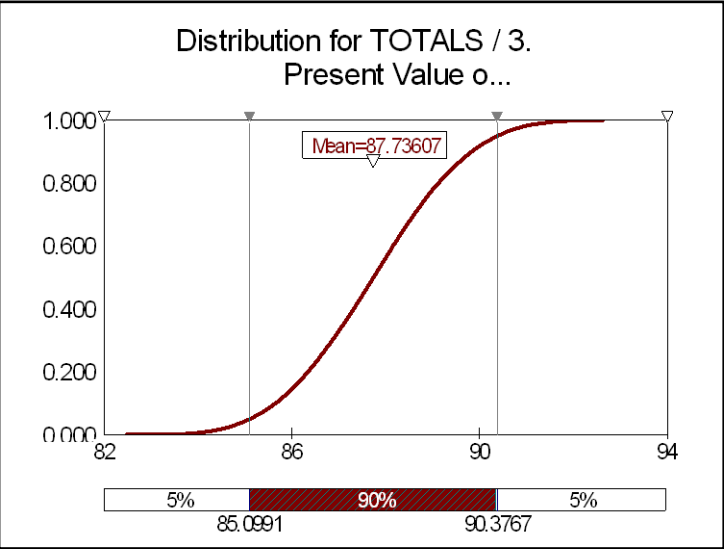
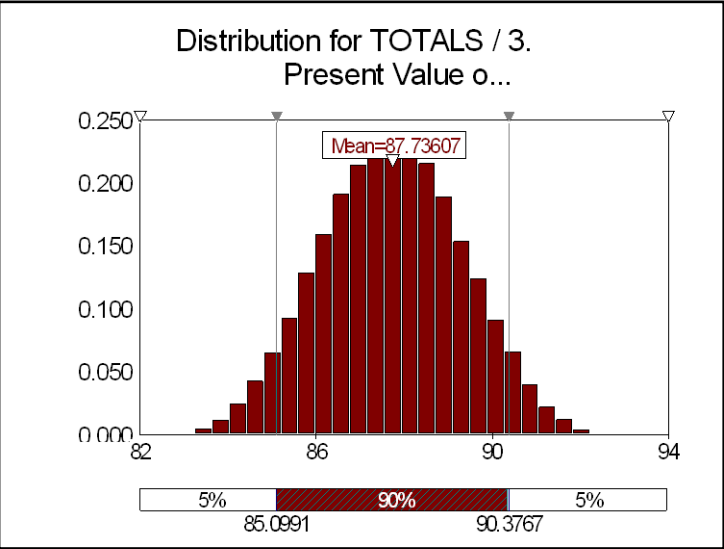


Summary Information	
Workbook Name	NutLabAt14Feb06 IV_23Mar06_Vd.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/24/2006 20:41
Simulation Stop Time	4/24/2006 20:44
Simulation Duration	00:02:12
Random Seed	1247717209

Summary Statistics			
Stati stic	Value	%tile	Value
Minim um	274.3268738	5%	447.1591187
Maxi mum	4646.19873	10%	491.4916687
Mean	838.3983764	15%	524.9867554
Std Dev	422.3519421	20%	554.1168823
Varia nce	178381.163	25%	581.5760498
Skew ness	2.690986948	30%	607.9703369
Kurto sis	13.61731634	35%	634.0270996
Media n	722.9379272	40%	661.4562988
Mode	605.6732987	45%	691.5446167
Left X	447.1591187	50%	722.9379272
Left P	5%	55%	756.3345947
Right X	1631.648682	60%	794.1762695
Right P	95%	65%	837.2869873
Diff X	1184.489563	70%	887.3536987
Diff P	90%	75%	947.7479248
#Erro rs	0	80%	1027.690063
Filter Min		85%	1131.463867
Filter Max		90%	1300.828369
#Filde red	0	95%	1631.648682

Sensitivity			
Ran k	Name	Regr	Corr
#1	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.808	-0.938
#2	Application Costs / Mid / \$C\$5	0.181	0.240
#3	Sticker Costs / Mid / \$C\$4	0.143	0.201
#4	Cost per label for larger label / Large & Small / \$B\$19	0.023	0.040
#5	Mid / \$F\$57	-0.006	-0.001
#6	Number of hours per store / Total / \$D\$8	0.005	0.000
#7	Prepress Activities / Mid / \$C\$7	0.004	-0.002
#8	Number of hours per store / Small Businesses / \$B\$8	0.000	-0.006
#9	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.014
#10	Average number of products per company / Large & Small Firms / \$B\$7	0.000	0.001
#11	Average number of products per company / Small Firms Only / \$C\$7	0.000	-0.004
#12	Cost per label for larger label / Small Firm Only / \$D\$19	0.000	-0.002
#13	Cost of larger label / Low / \$B\$43	0.000	0.002
#14	Administrative Costs / Mid / \$C\$5	0.000	0.003
#15	Graphic Design / Mid / \$C\$6	0.000	0.003
#16	Engraving / Mid / \$C\$8	0.000	-0.002

Appendix B.
Table 15. Simulation Results for Alternative 2
TOTALS / 3. Present Value of POP
Materials Costs Discounted at 7% / D28



Summary Information	
Workbook Name	NutLabAt14Feb06 IV_23Mar06_Vd.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/24/2006 20:41
Simulation Stop Time	4/24/2006 20:44
Simulation Duration	00:02:12
Random Seed	1247717209

Summary Statistics			
Stat istic	Value	%tile	Value
Mini mum	82.47988892	5%	85.09909058
Maxi mum	92.63188171	10%	85.64807892
Mean	87.73606578	15%	86.02857971
Std Dev	1.59135023	20%	86.34591675
Varia nce	2.532395554	25%	86.6121521
Skew ness	0.000665353	30%	86.86328125
Kurto sis	2.637797173	35%	87.09356689
Medi an	87.74233246	40%	87.31712341
Mode	85.40917206	45%	87.53206635
Left X	85.09909058	50%	87.74233246
Left P	5%	55%	87.947258
Right X	90.37672424	60%	88.15905762
Right P	95%	65%	88.37299347
Diff X	5.277633667	70%	88.60353088
Diff P	90%	75%	88.84571838
#Erro rs	0	80%	89.12228394
Filter Min		85%	89.43968201
Filter Max		90%	89.83275604
#Filde red	0	95%	90.37672424

Sensitivity			
Ran k	Name	Regr	Corr
#1	labor needed / 1. POP Materials - Undiscounted Costs / \$B\$36	0.860	0.858
#2	manual cost / 1. POP Materials - Undiscounted Costs / \$B\$39	0.509	0.489
#3	Number of hours per store / Total / \$D\$8	0.000	0.004
#4	Graphic Design / Mid / \$C\$6	0.000	0.000
#5	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$40	0.000	0.000
#6	packages @ / OMB mid-year discount factor 7% / \$R\$59	0.000	0.005
#7	Cost per label for larger label / Large & Small / \$B\$19	0.000	-0.003
#8	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$50	0.000	-0.006
#9	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.002
#10	label @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$45	0.000	0.002
#11	recurring labels @\$0.005 / 7. Present Value of Retail Costs (column 1) (3%) / \$T\$40	0.000	0.002
#12	Administrative Costs / Mid / \$C\$5	0.000	0.000
#13	Number of hours per store / Small Businesses / \$B\$8	0.000	0.003
#14	one-time redesign labels / mid-point / \$E\$54	0.000	-0.005
#15	Average number of products per company / Large & Small Firms / \$B\$7	0.000	0.003
#16	Sticker Costs / Mid / \$C\$4	0.000	-0.010

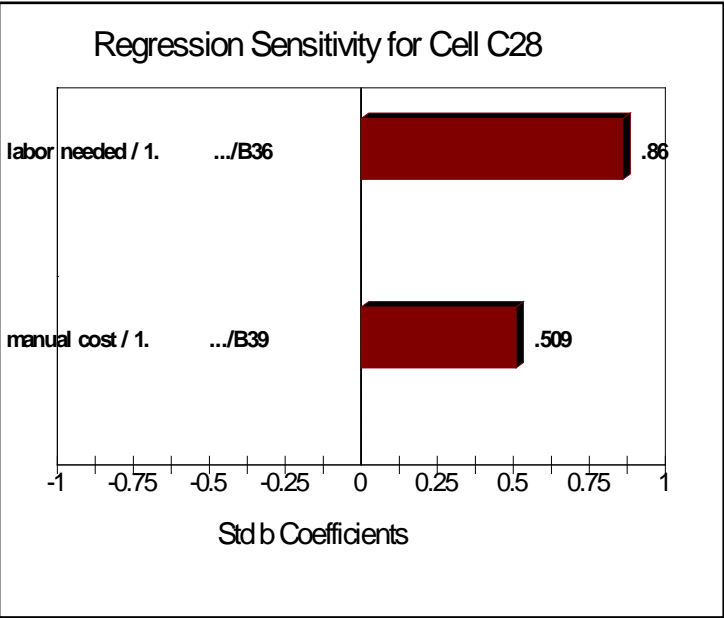
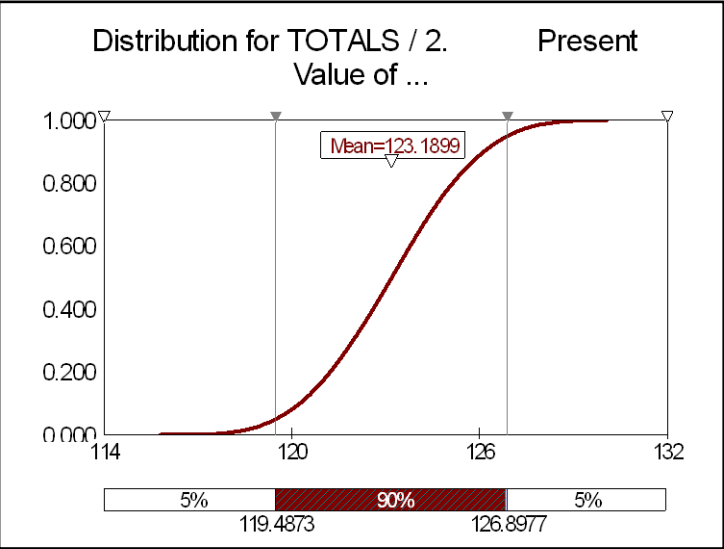
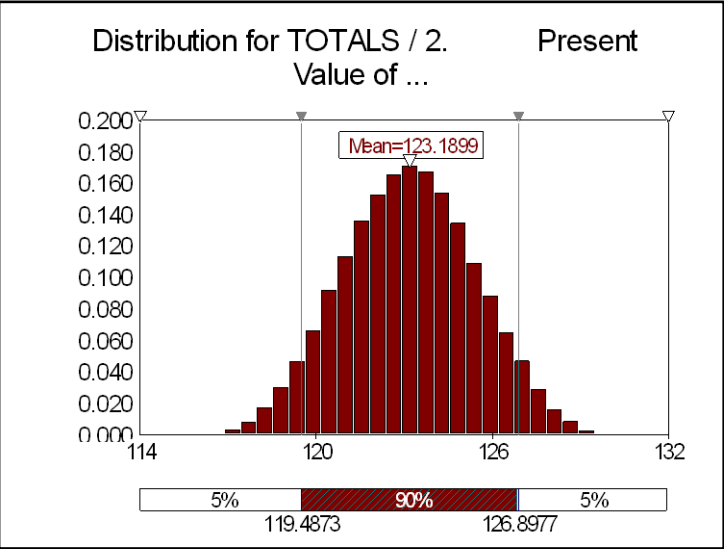
Appendix B.

Table 16.

Simulation Results for Alternative 2

TOTALS / 2. Present Value of POP

Materials Costs Discounted at 3% / C28



Summary Information	
Workbook Name	NutLabAt14Feb06 IV_23Mar06_Vd.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/24/2006 20:41
Simulation Stop Time	4/24/2006 20:44
Simulation Duration	00:02:12
Random Seed	1247717209

Summary Statistics			
Stat istic	Value	%tile	Value
Mini mum	115.8097305	5%	119.4873428
Maxi mum	130.0641174	10%	120.2581787
			120.7924347
Mean	123.1899168	15%	121.2380066
Std Dev	2.234409539	20%	121.6118393
Varia nce	4.992585986	25%	
Skew ness	0.000665241	30%	121.964447
Kurto sis	2.637797201	35%	122.2877884
Medi an	123.1987228	40%	122.6016846
			122.9034805
Mode	121.1455002	45%	123.1987228
Left X	119.4873428	50%	123.4864578
Left P	5%	55%	123.7838364
Right X	126.8976593	60%	124.0842285
Right P	95%	65%	124.4079132
Diff X	7.410316467	70%	124.7479782
Diff P	90%	75%	125.1362991
#Erro rs	0	80%	125.5819626
Filter Min		85%	126.1338806
Filter Max		90%	126.8976593
#Filde red	0	95%	

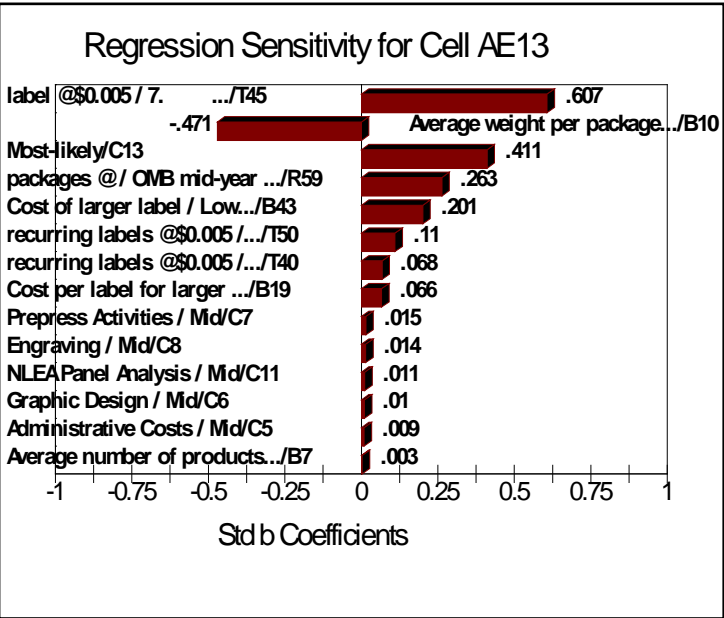
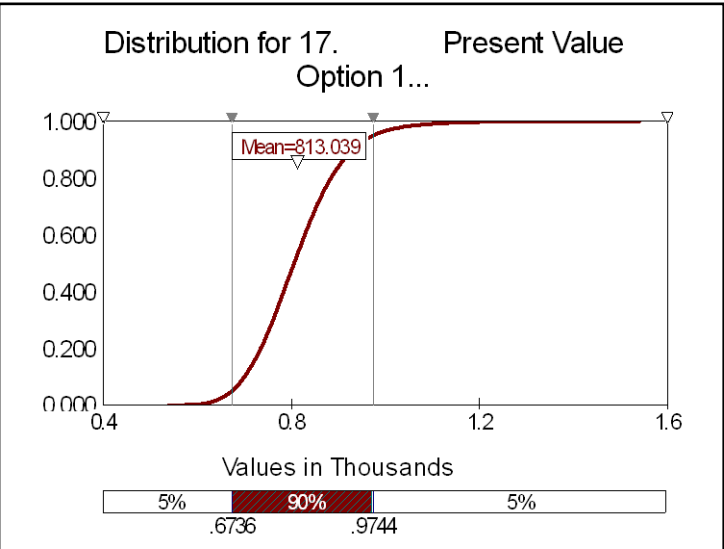
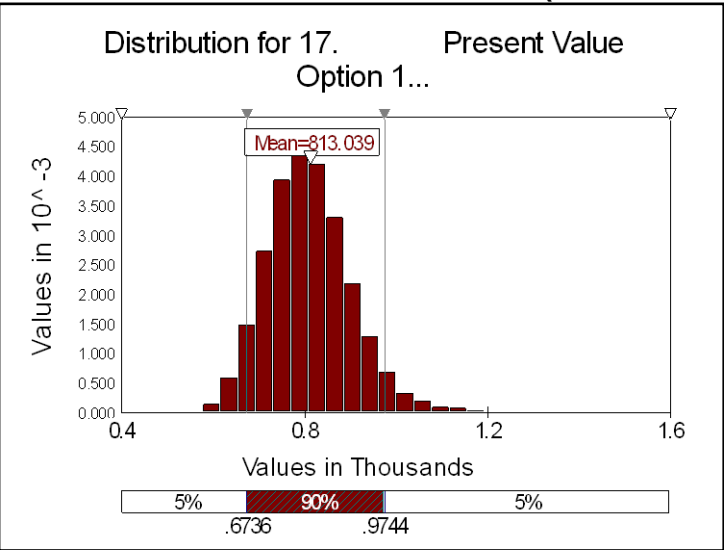
Sensitivity			
Ran k	Name	Regr	Corr
#1	labor needed / 1. POP Materials - Undiscounted Costs / \$B\$36	0.860	0.858
#2	manual cost / 1. POP Materials - Undiscounted Costs / \$B\$39	0.509	0.489
#3	Cost per label for larger label / Small Firm Only / \$D\$19	0.000	-0.004
#4	Administrative Costs / Mid / \$C\$5	0.000	0.000
#5	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.002
#6	Number of hours per store / Total / \$D\$8	0.000	0.004
#7	Average weight per package of meat and poultry (pounds) / \$B\$10	0.000	-0.004
#8	label @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$45	0.000	0.002
#9	Cost per label for larger label / Large & Small / \$B\$19	0.000	-0.003
#10	one-time redesign labels / mid-point / \$E\$54	0.000	-0.005
#11	NLEA Panel Analysis / Mid / \$C\$11	0.000	0.006
#12	Cost of larger label / Low / \$B\$43	0.000	-0.004
#13	label @\$0.005 / 7. Present Value of Retail Costs (column 1) (3%) / \$T\$45	0.000	-0.001
#14	recurring labels @\$0.005 / 7. Present Value of Retail Costs (column 1) (3%) / \$T\$50	0.000	-0.004
#15	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$40	0.000	0.000
#16	Average number of products per company / Small Firms Only / \$C\$7	0.000	0.003

Appendix B.

Table 17.

Simulation Results for Alternative 4

17. Present Value Option 1 Labels on Major Cuts and Ground and Chopped Products Costs (Retail+ Processing



Summary Information	
Workbook Name	NutLabAt14Feb06 IV_23Mar06_Vd.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/24/2006 20:41
Simulation Stop Time	4/24/2006 20:44
Simulation Duration	00:02:12
Random Seed	1247717209

Summary Statistics			
Stat istic	Value	%tile	Value
Mini mum	539.8584595	5%	673.6125488
Maxi mum	1541.748535	10%	700.2054443
Mean	813.0389791	15%	719.3530273
Std Dev	94.6180836	20%	735.0300903
Varia nce	8952.581745	25%	748.7334595
Skew ness	0.742339781	30%	761.0892944
Kurto sis	4.765490214	35%	772.5258789
Medi an	805.7607422	40%	783.6802368
Mode	820.7205811	45%	794.7712402
Left X	673.6125488	50%	805.7607422
Left P	5%	55%	817.303833
Right X	974.4241943	60%	828.6255493
Right P	95%	65%	840.4630127
Diff X	300.8116455	70%	853.2466431
Diff P	90%	75%	867.921875
#Erro rs	0	80%	884.368103
Filter Min		85%	904.3126831
Filter Max		90%	930.9348755
#Filte red	0	95%	974.4241943

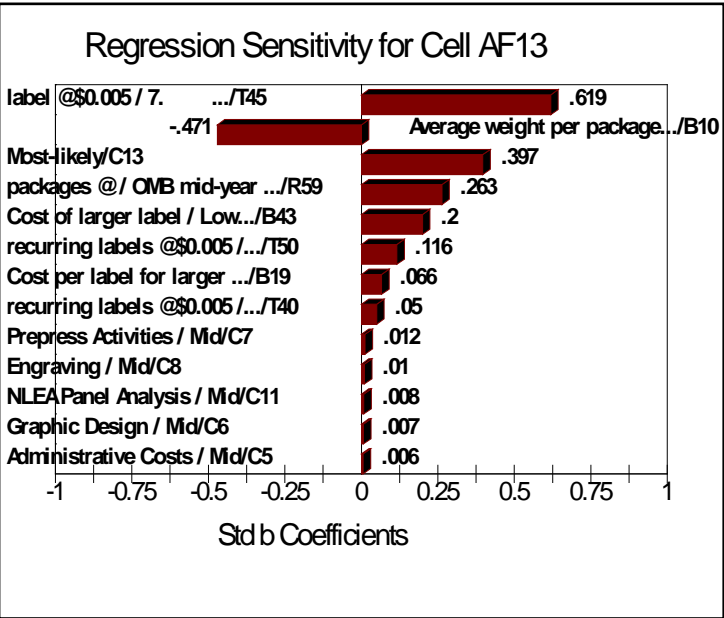
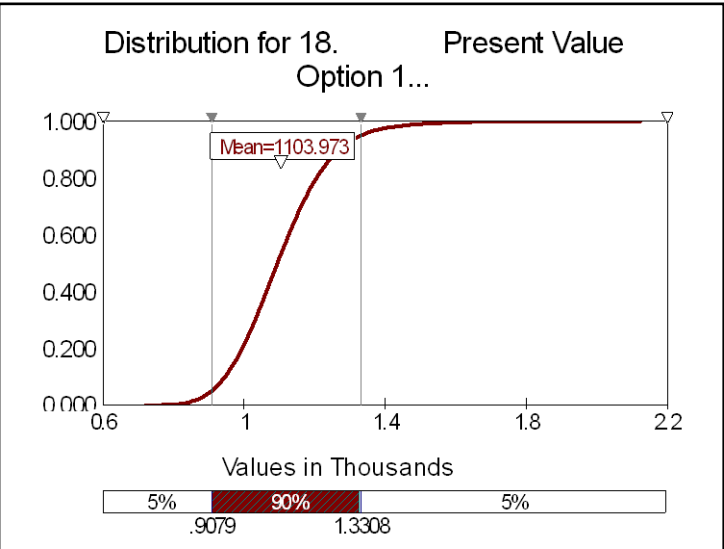
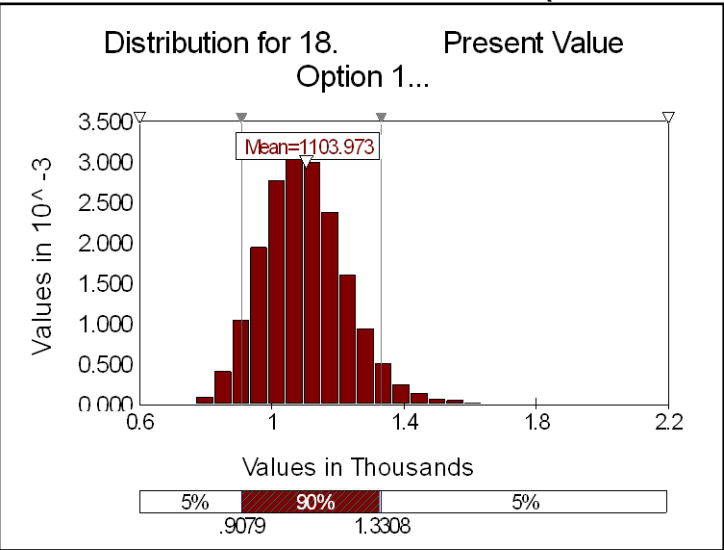
Sensitivity			
Ran k	Name	Regr	Corr
#1	label @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$45	0.607	0.644
#2	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.471	-0.419
#3	Most-likely / \$C\$13	0.411	0.421
#4	packages @ / OMB mid-year discount factor 7% / \$R\$59	0.263	0.269
#5	Cost of larger label / Low / \$B\$43	0.201	0.188
#6	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$50	0.110	0.110
#7	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$40	0.068	0.068
#8	Cost per label for larger label / Large & Small / \$B\$19	0.066	0.063
#9	Prepress Activities / Mid / \$C\$7	0.015	0.012
#10	Engraving / Mid / \$C\$8	0.014	0.012
#11	NLEA Panel Analysis / Mid / \$C\$11	0.011	0.008
#12	Graphic Design / Mid / \$C\$6	0.010	0.009
#13	Administrative Costs / Mid / \$C\$5	0.009	0.018
#14	Average number of products per company / Large & Small Firms / \$B\$7	0.003	0.004
#15	Number of hours per store / Small Businesses / \$B\$8	0.000	0.001
#16	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.003

Appendix B.

Table 18.

Simulation Results for Alternative 4

18. Present Value Option 1 Labels on Major Cuts and Ground and Chopped Products Costs (Retail+ Processing



Summary Information	
Workbook Name	NutLabAt14Feb06 IV_23Mar06_Vd.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/24/2006 20:41
Simulation Stop Time	4/24/2006 20:44
Simulation Duration	00:02:12
Random Seed	1247717209

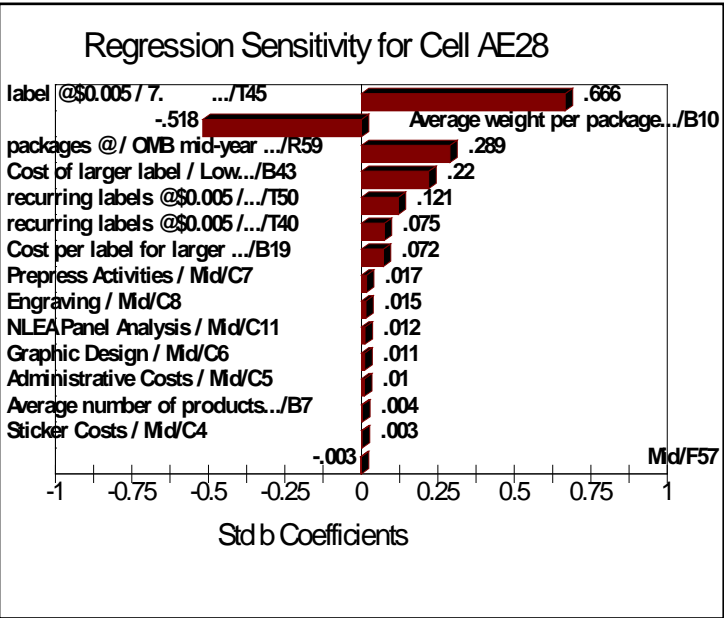
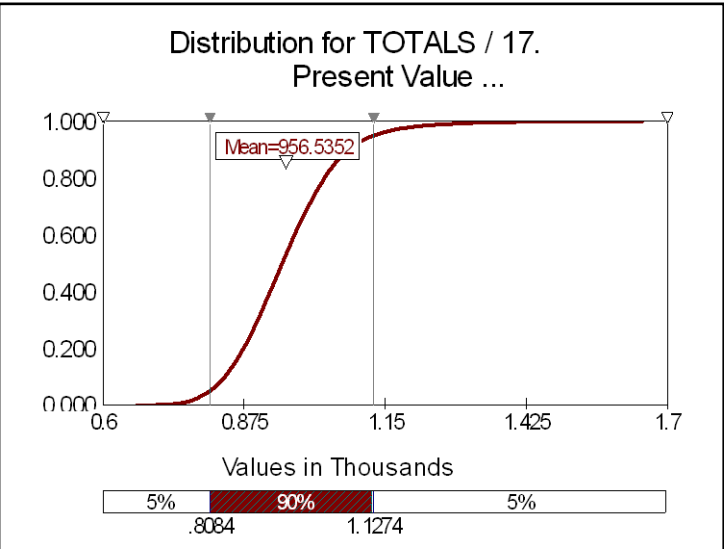
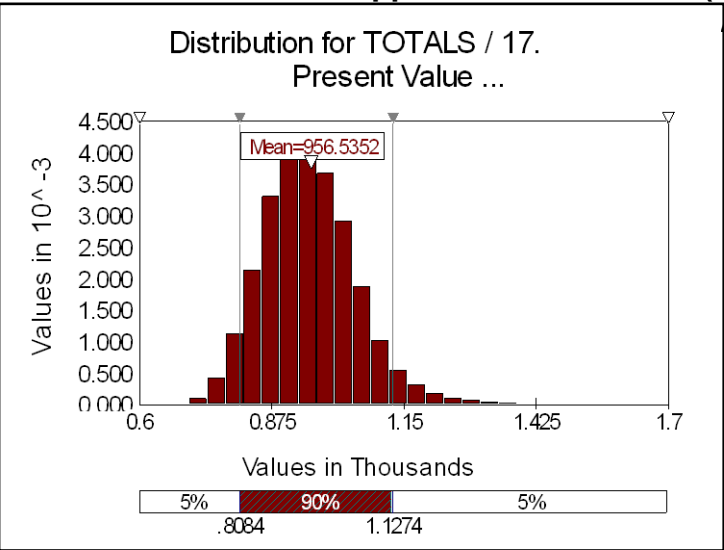
Summary Statistics			
Statistic	Value	%tile	Value
Minimum	719.7698975	5%	907.9170532
Maximum	2123.141357	10%	944.9591675
Mean	1103.972769	15%	971.7333374
Std Dev	133.0740525	20%	994.0108032
Variance	17708.70344	25%	1013.353394
Skewness	0.737513295	30%	1030.881836
Kurtosis	4.74371891	35%	1046.977539
Median	1093.8479	40%	1062.675415
Mode	1028.776855	45%	1078.208008
Left X	907.9170532	50%	1093.8479
Left P	5%	55%	1109.887573
Right X	1330.83728	60%	1126.022461
Right P	95%	65%	1142.917236
Diff X	422.9202271	70%	1160.565918
Diff P	90%	75%	1181.509155
#Errors	0	80%	1204.124634
Filter Min		85%	1232.879028
Filter Max		90%	1269.325806
#Filtered	0	95%	1330.83728

Sensitivity			
Rank	Name	Regr	Corr
#1	label @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$45	0.619	0.657
#2	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.471	-0.419
#3	Most-likely / \$C\$13	0.397	0.405
#4	packages @ / OMB mid-year discount factor 7% / \$R\$59	0.263	0.269
#5	Cost of larger label / Low / \$B\$43	0.200	0.187
#6	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$50	0.116	0.115
#7	Cost per label for larger label / Large & Small / \$B\$19	0.066	0.063
#8	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$40	0.050	0.049
#9	Prepress Activities / Mid / \$C\$7	0.012	0.008
#10	Engraving / Mid / \$C\$8	0.010	0.008
#11	NLEA Panel Analysis / Mid / \$C\$11	0.008	0.006
#12	Graphic Design / Mid / \$C\$6	0.007	0.007
#13	Administrative Costs / Mid / \$C\$5	0.006	0.015
#14	Number of hours per store / Small Businesses / \$B\$8	0.000	0.001
#15	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.003
#16	Number of hours per store / Total / \$D\$8	0.000	-0.002

Appendix B.

Table 19.

Simulation Results for Alternative 5
TOTALS / 17. Present Value Option 1
Labels on All Cuts and Ground and
Chopped Products Costs (Retail+
AE28

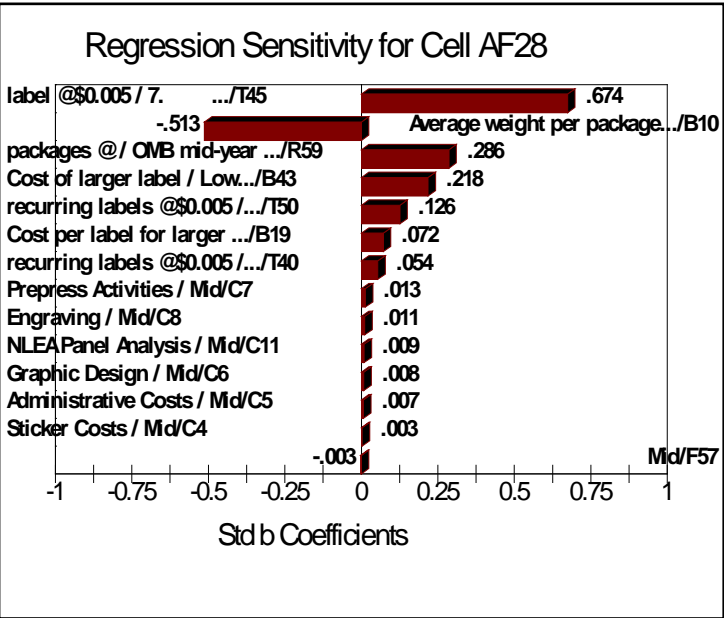
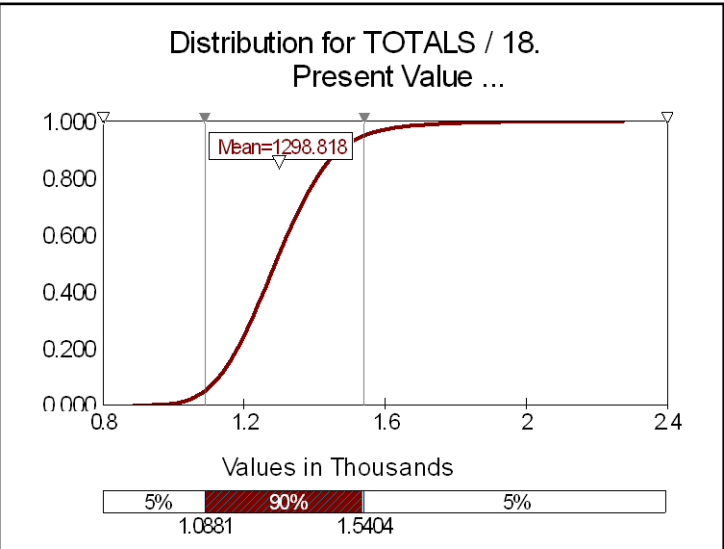
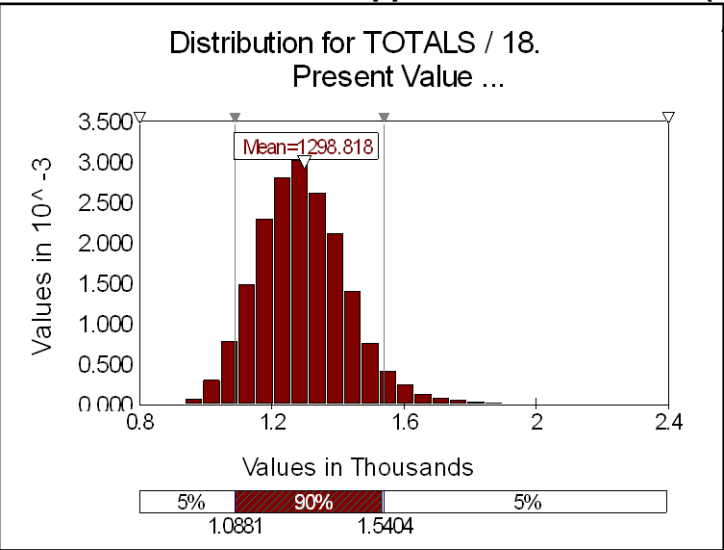


Summary Information	
Workbook Name	NutLabAt14Feb06 IV_23Mar06_Vd.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/24/2006 20:41
Simulation Stop Time	4/24/2006 20:44
Simulation Duration	00:02:12
Random Seed	1247717209

Summary Statistics			
Statistic	Value	%tile	Value
Minimum	665.9577637	5%	808.359375
Maximum	1651.604004	10%	836.7263794
Mean	956.5351607	15%	857.1433105
Std Dev	101.4497445	20%	873.2445068
Variance	10292.05065	25%	887.9334106
Skewness	0.841931164	30%	901.1932373
Kurtosis	5.229223147	35%	913.4950562
Median	948.7000732	40%	925.5444336
Mode	940.3519897	45%	937.3207397
Left X	808.359375	50%	948.7000732
Left P	5%	55%	960.7299194
Right X	1127.417725	60%	972.9390259
Right P	95%	65%	985.8798218
Diff X	319.0583496	70%	999.8378296
Diff P	90%	75%	1014.594055
#Errors	0	80%	1031.482544
Filter Min		85%	1051.00708
Filter Max		90%	1077.716431
#Filtered	0	95%	1127.417725

Sensitivity			
Rank	Name	Regr	Corr
#1	label @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$45	0.666	0.724
#2	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.518	-0.467
#3	packages @ / OMB mid-year discount factor 7% / \$R\$59	0.289	0.302
#4	Cost of larger label / Low / \$B\$43	0.220	0.209
#5	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$50	0.121	0.123
#6	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$40	0.075	0.075
#7	Cost per label for larger label / Large & Small / \$B\$19	0.072	0.068
#8	Prepress Activities / Mid / \$C\$7	0.017	0.012
#9	Engraving / Mid / \$C\$8	0.015	0.015
#10	NLEA Panel Analysis / Mid / \$C\$11	0.012	0.011
#11	Graphic Design / Mid / \$C\$6	0.011	0.015
#12	Administrative Costs / Mid / \$C\$5	0.010	0.020
#13	Average number of products per company / Large & Small Firms / \$B\$7	0.004	0.004
#14	Sticker Costs / Mid / \$C\$4	0.003	0.004
#15	Mid / \$F\$57	-0.003	-0.003
#16	Number of hours per store / Small Businesses / \$B\$8	0.000	0.001

Appendix B.
Table 20. Simulation Results for Alternative 5
TOTALS / 18. Present Value Option 1
Labels on All Cuts and Ground and
Chopped Products Costs (Retail+
AF28



Summary Information	
Workbook Name	NutLabAt14Feb06 IV_23Mar06_Vd.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/24/2006 20:41
Simulation Stop Time	4/24/2006 20:44
Simulation Duration	00:02:12
Random Seed	1247717209

Summary Statistics			
Stat istic	Value	%tile	Value
Mini mum	886.6021729	5%	1088.074707
Maxi mum	2274.42334	10%	1128.490845
Mean	1298.817773	15%	1157.641968
Std Dev	143.6598372	20%	1180.666626
Varia nce	20638.14881	25%	1201.278198
Skew ness	0.821122018	30%	1220.268799
Kurto sis	5.145346615	35%	1237.575684
Medi an	1287.922852	40%	1254.844604
Mode	1336.641846	45%	1271.78186
Left X	1088.074707	50%	1287.922852
Left P	5%	55%	1305.023926
Right X	1540.35144	60%	1322.348022
Right P	95%	65%	1340.788818
Diff X	452.2767334	70%	1360.722168
Diff P	90%	75%	1381.670898
#Erro rs	0	80%	1405.462646
Filter Min		85%	1432.997314
Filter Max		90%	1470.962769
#Filde red	0	95%	1540.35144

Sensitivity			
Ran k	Name	Regr	Corr
#1	label @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$45	0.674	0.731
#2	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.513	-0.462
#3	packages @ / OMB mid-year discount factor 7% / \$R\$59	0.286	0.298
#4	Cost of larger label / Low / \$B\$43	0.218	0.207
#5	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$50	0.126	0.128
#6	Cost per label for larger label / Large & Small / \$B\$19	0.072	0.067
#7	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%) / \$T\$40	0.054	0.053
#8	Prepress Activities / Mid / \$C\$7	0.013	0.008
#9	Engraving / Mid / \$C\$8	0.011	0.010
#10	NLEA Panel Analysis / Mid / \$C\$11	0.009	0.008
#11	Graphic Design / Mid / \$C\$6	0.008	0.011
#12	Administrative Costs / Mid / \$C\$5	0.007	0.016
#13	Sticker Costs / Mid / \$C\$4	0.003	0.003
#14	Mid / \$F\$57	-0.003	-0.003
#15	Number of hours per store / Small Businesses / \$B\$8	0.000	0.001
#16	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.006

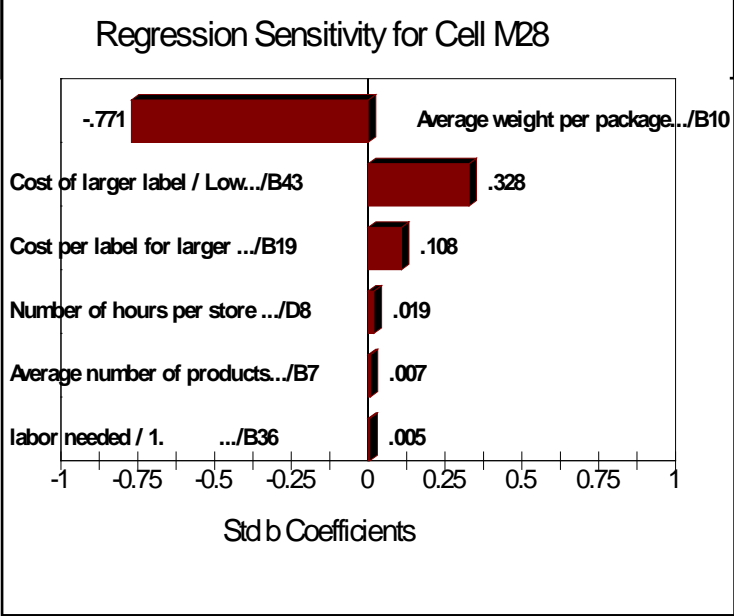
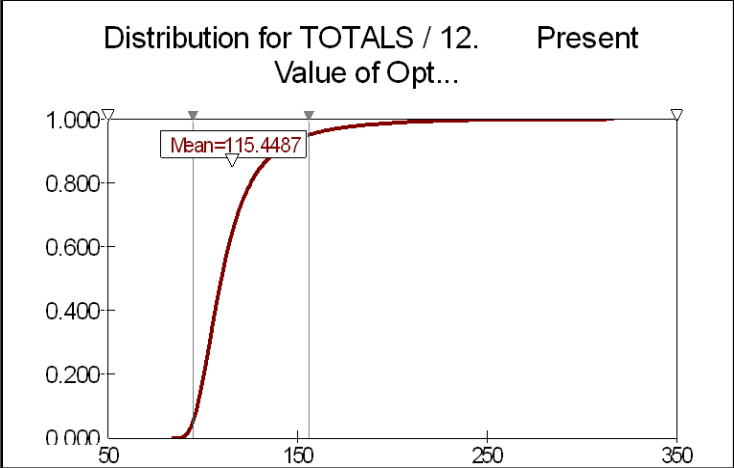
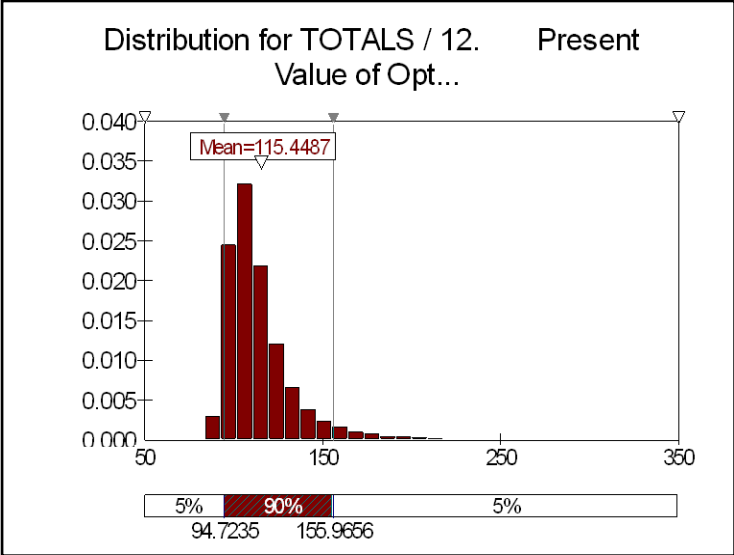
Appendix C. Table 1. Compliance Adjusted Baseline: Simulation Results for Alternative 3 Costs (after estimated current expended costs are adjusted off total costs)

	Name	Worksheet	Cell	Minimum	Mean	Maximum	x1	p1	x2	p2	x2-x1	p2-p1
Output 1	1/all / Present Value of Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	K6	1.471688	2.465302	7.565954	1.893266	5%	3.411976	95%	1.51871	90%
Output 2	1/all / Present Value of Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	L6	1.528352	2.560222	7.857264	1.966162	5%	3.543346	95%	1.577184	90%
Output 3	1/all / Present Value of Option 1 Retail + Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	M6	23.18766	26.16835	43.96635	24.30616	5%	29.73896	95%	5.432796	90%
Output 4	1/all / Present Value of Option 1 Retail + Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	N6	24.08045	27.1759	45.65918	25.24201	5%	30.88399	95%	5.641973	90%
Output 5	1/all / Present Value of Option 2 + Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	O6	8.696994	20.64985	98.33887	12.80933	5%	36.61141	95%	23.80207	90%
Output 6	1/all / Present Value of Option 2 + Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	P6	9.031851	21.44492	102.1252	13.30253	5%	38.02105	95%	24.71852	90%
Output 7	1/only small / Present Value of Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	K7	0.119247	0.1702358	0.2374366	0.1445874	5%	0.197849	95%	5.33E-02	90%
Output 8	1/only small / Present Value of Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	L7	0.1288086	0.1838859	0.2564751	0.1561808	5%	0.2137132	95%	5.75E-02	90%
Output 9	1/only small / Present Value of Option 1 Retail + Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	M7	3.34948	3.570232	3.799559	3.438833	5%	3.702084	95%	0.2632515	90%
Output 10	1/only small / Present Value of Option 1 Retail + Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	N7	3.618053	3.856505	4.10422	3.71457	5%	3.99893	95%	0.2843599	90%
Output 11	1/only small / Present Value of Option 2 + Processing Plant Costs (7%)	Alt#3_FirstYrPVCosts	O7	3.34948	3.570232	3.799559	3.438833	5%	3.702084	95%	0.2632515	90%
Output 12	1/only small / Present Value of Option 2 + Processing Plant Costs (3%)	Alt#3_FirstYrPVCosts	P7	3.618053	3.856505	4.10422	3.71457	5%	3.99893	95%	0.2843599	90%
Output 13	TOTALS / 6. Present Value of Option 1 Retail Costs (cols. a+d) (7%)	Alt#3_PVCosts	G28	79.03374	104.1672	270.7651	87.47724	5%	135.5844	95%	48.10712	90%
Output 14	TOTALS / 7. Present Value of Option 1 Retail Costs (cols. a+d) (3%)	Alt#3_PVCosts	H28	106.2122	141.4721	375.4081	118.0466	5%	185.5728	95%	67.52618	90%
Output 15	TOTALS / 8. Present Value of Option 2 Retail Costs (cols. a+e) (7%)	Alt#3_PVCosts	I28	58.69766	184.7231	1026.806	100.1822	5%	356.0912	95%	255.909	90%
Output 16	TOTALS / 9. Present Value of Option 2 Retail Costs (cols. a+e) (3%)	Alt#3_PVCosts	J28	81.81952	258.7143	1441.053	140.0118	5%	499.301	95%	359.2892	90%
Output 17	TOTALS / 10. Present Value of Processing Plant Costs (cols. b+c) (7%)	Alt#3_PVCosts	K28	3.380496	11.28148	68.49493	5.722594	5%	21.69823	95%	15.97563	90%
Output 18	TOTALS / 11. Present Value of Processing Plant Costs (cols. b+c) (3%)	Alt#3_PVCosts	L28	4.203216	15.251	95.5637	7.452395	5%	29.89207	95%	22.43967	90%
Output 19	TOTALS / 12. Present Value of Option 1 Retail + Processing Plant Costs (cols. 1+3) (7%)	Alt#3_PVCosts	M28	84.15536	115.4487	316.3576	94.72345	5%	155.9656	95%	61.24217	90%
Output 20	TOTALS / 13. Present Value of Option 1 Retail + Processing Plant Costs (cols. 1+3) (3%)	Alt#3_PVCosts	N28	112.8678	156.7231	438.7929	127.6168	5%	213.6017	95%	85.9849	90%
Output 21	TOTALS / 14. Present Value of Option 2 Retail + Processing Plant Costs (cols. 2+3) (7%)	Alt#3_PVCosts	O28	63.81927	196.0046	1075.384	107.2419	5%	376.518	95%	269.2761	90%
Output 22	TOTALS / 15. Present Value of Option 2 Retail + Processing Plant Costs (cols. 2+3) (3%)	Alt#3_PVCosts	P28	88.47511	273.9653	1508.669	149.3604	5%	527.4691	95%	378.1087	90%
Output 23	TOTALS / f. Present Value of POP Placards Costs (Retail) (column a) (7%)	Alt#3_PVCosts	G56	13.2645	14.04301	14.82184	13.50764	5%	14.57837	95%	1.070736	90%
Output 24	TOTALS / g. Present Value of POP Placards Costs (Retail) (column a) (3%)	Alt#3_PVCosts	H56	18.28016	19.35305	20.42638	18.61523	5%	20.09085	95%	1.475611	90%
Output 25	TOTALS / h. Present Value of Modifying Product Labels Costs (Plants) (column b) (7%)	Alt#3_PVCosts	I56	1.117336	1.611887	2.249285	1.369858	5%	1.873365	95%	0.5035071	90%
Output 26	TOTALS / i. Present Value of Modifying Product Labels Costs (Plants) (column b) (3%)	Alt#3_PVCosts	J56	1.160357	1.673949	2.335888	1.422601	5%	1.945495	95%	0.5228937	90%
Output 27	TOTALS / j. Present Value of Larger Labels on Ground or Chopped Meat and Poultry Products Costs (Plants) (column c) (7%)	Alt#3_PVCosts	K56	1.809184	9.669598	66.82695	4.111356	5%	20.10353	95%	15.99217	90%
Output 28	TOTALS / k. Present Value of Larger Labels on Ground or Chopped Meat and Poultry Products Costs (Plants) (column c) (3%)	Alt#3_PVCosts	L56	2.540269	13.57705	93.8315	5.772742	5%	28.2273	95%	22.45456	90%
Output 29	TOTALS / l. Present Value of Option 1 Labels Printed Costs (Retail) (column d) (7%)	Alt#3_PVCosts	M56	65.57464	90.12418	257.1666	73.46009	5%	121.5078	95%	48.04772	90%
Output 30	TOTALS / m. Present Value of Option 1 Labels Printed Costs (Retail) (column d) (3%)	Alt#3_PVCosts	N56	87.66388	122.119	356.6676	98.72092	5%	166.1899	95%	67.46894	90%
Output 31	TOTALS / n. Present Value of Option 2 Labels Preprinted Costs (Retail) (column e) (7%)	Alt#3_PVCosts	O56	45.14693	170.6801	1012.61	86.13628	5%	341.968	95%	255.8317	90%
Output 32	TOTALS / o. Present Value of Option 2 Labels Preprinted Costs (Retail) (column e) (3%)	Alt#3_PVCosts	P56	63.0968	239.3612	1421.49	120.666	5%	479.8532	95%	359.1873	90%
Input 1	Number of hours per store / Small Businesses	Major Cuts	B8	0.3008628	0.5	0.6990162	0.3632444	5%	0.6367434	95%	0.273499	90%
Input 2	Number of hours per store / Large Businesses	Major Cuts	C8	0.30084	0.5	0.6989619	0.3632451	5%	0.6367505	95%	0.2735054	90%
Input 3	Number of hours per store / Total	Major Cuts	D8	0.3011362	0.5000001	0.6989459	0.3632432	5%	0.6367533	95%	0.2735101	90%
Input 4	Average number of products per company / Large & Small Firms	Ground-Plants	B7	5.605926	6.6	7.594223	5.916216	5%	7.283718	95%	1.367502	90%
Input 5	Average number of products per company / Small Firms Only	Ground-Plants	C7	5.605144	6.6	7.593747	5.916185	5%	7.28376	95%	1.367574	90%
Input 6	Cost per label for larger label / Large & Small	Ground-Plants	B19	2.01E-03	0.005	7.98E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 7	Cost per label for larger label / Small Firm Only	Ground-Plants	D19	2.01E-03	5.00E-03	8.00E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 8	Cost of larger label / Low	Ground-Stores	B43	2.02E-03	0.005	7.98E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 9	Administrative Costs / Mid	FDA Label Costs	C5	120.9024	280	439.094	170.5865	5%	389.4013	95%	218.8148	90%
Input 10	Graphic Design / Mid	FDA Label Costs	C6	300.864	450	599.6684	347.4249	5%	552.561	95%	205.136	90%
Input 11	Prepress Activities / Mid	FDA Label Costs	C7	245.1927	351.6667	549.0701	260.1243	5%	483.4915	95%	223.3671	90%
Input 12	Engraving / Mid	FDA Label Costs	C8	150.5764	283.3333	499.201	179.5802	5%	427.5392	95%	247.959	90%
Input 13	NLEA Panel Analysis / Mid	FDA Label Costs	C11	525.3312	605	689.8738	549.8698	5%	662.7505	95%	112.8807	90%
Input 14	Sticker Costs / Mid	FDA Sticker Costs	C4	1.00E-02	0.015	2.00E-02	1.16E-02	5%	1.84E-02	95%	6.84E-03	90%
Input 15	Application Costs / Mid	FDA Sticker Costs	C5	4.04E-03	1.07E-02	1.70E-02	6.13E-03	5%	1.50E-02	95%	8.89E-03	90%

Input 16	Average weight per package of meat and poultry (pounds)	Package Volume	B10	0.5001397	2.735974	6.978588	1.171519	5%	4.351441	95%	3.179922	90%
Input 17	labor needed / 1. POP Materials - Undiscounted Costs	Alt#2_PVCosts	B36	0.300937	0.5	0.6992218	0.3632347	5%	0.6367471	95%	0.2735123	90%
Input 18	manual cost / 1. POP Materials - Undiscounted Costs	Alt#2_PVCosts	B39	97.51342	100	102.4865	98.29041	5%	101.7094	95%	3.418945	90%
Input 19	Mid	Alt#2_PVCosts	F57	0.5482107	0.614	0.67961	0.5688697	5%	0.6591256	95%	9.03E-02	90%
Input 20	Most-likely	Alt#4_PVCosts	C13	0.7505617	0.85	0.9495229	0.781617	5%	0.9183729	95%	0.1367558	90%
Input 21	recurring labels @\$0.005 / 7. Present Value of Retail Costs (column 1) (3%)	Alt#5_PVCosts	T40	2.02E-03	0.005	7.98E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 22	label @\$0.005 / 7. Present Value of Retail Costs (column 1) (3%)	Alt#5_PVCosts	T45	2.01E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 23	recurring labels @\$0.005 / 7. Present Value of Retail Costs (column 1) (3%)	Alt#5_PVCosts	T50	2.00E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 24	one-time redesign labels / mid-point	Alt#5_PVCosts	E54	1332.596	2014.667	2756.674	1541.315	5%	2519.295	95%	977.9807	90%
Input 25	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%)	Alt#5_PVCosts(all)	T40	2.01E-03	0.005	8.00E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 26	label @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%)	Alt#5_PVCosts(all)	T45	2.01E-03	0.005	7.98E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 27	recurring labels @\$0.005 / 7. Present Value of Retail Cuts Costs (column 1) (3%)	Alt#5_PVCosts(all)	T50	2.02E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%
Input 28	packages @ / OMB mid-year discount factor 7%	Alt#5_PVCosts(all)	R59	2.01E-03	0.005	7.99E-03	2.95E-03	5%	7.05E-03	95%	4.10E-03	90%

Appendix C.
Table 2.

Compliance Adjusted Baseline:
Simulation Results for Alternative 3
TOTALS / 12. Present Value of Option 1
Retail + Processing Plant Costs (7%) / M28



Summary Information	
Workbook Name	NutLabAt14Feb06 IVb_23Mar06_Ve.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/28/2006 8:58
Simulation Stop Time	4/28/2006 9:00
Simulation Duration	00:01:59
Random Seed	1568173645

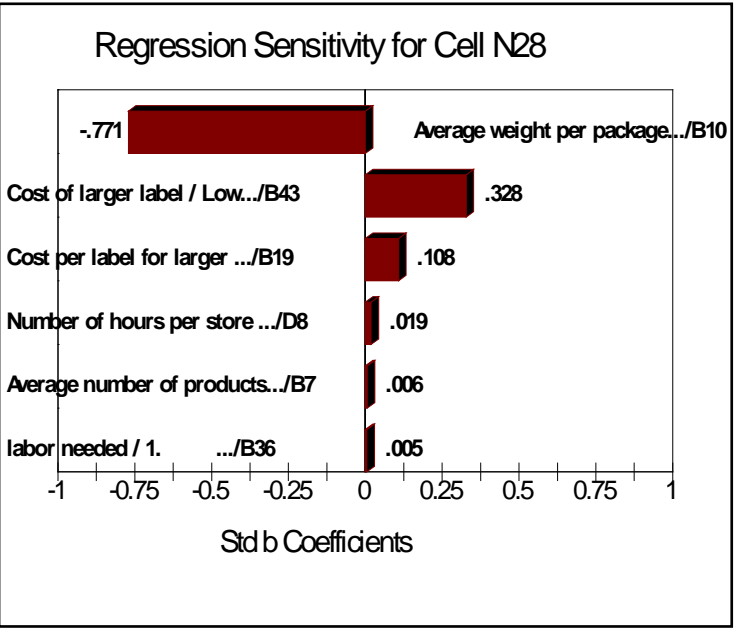
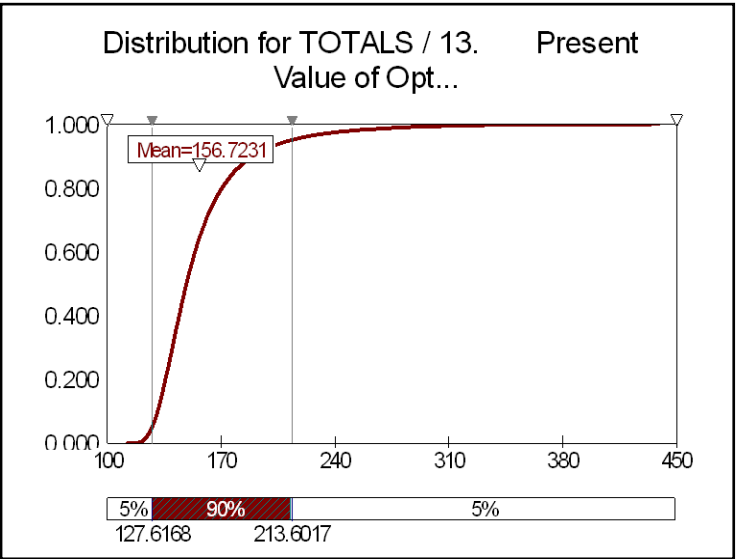
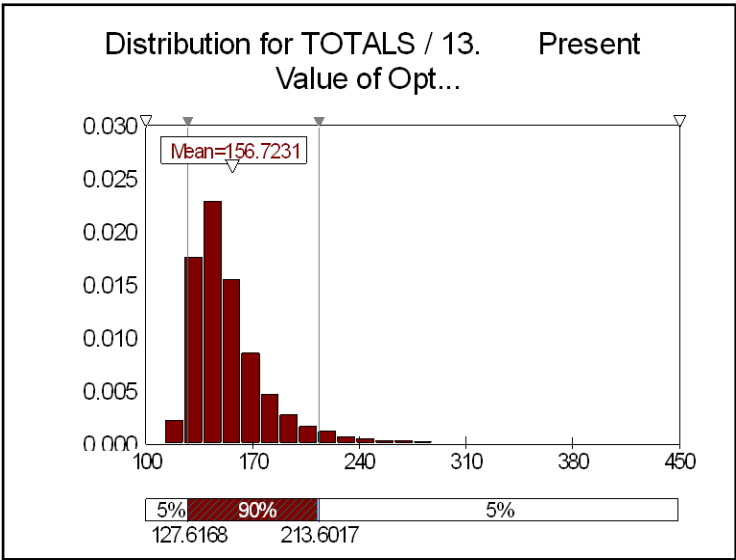
Summary Statistics			
Statistic	Value	%tile	Value
Minimum	\$84.16	5%	\$94.72
Maximum	\$316.36	10%	\$97.14
Mean	\$115.45	15%	\$98.97
Std Dev	\$21.76	20%	\$100.65
Variance	473.4231132	25%	\$102.14
Skewness	2.703591838	30%	\$103.63
Kurtosis	14.23690179	35%	\$105.12
Median	\$109.78	40%	\$106.58
Mode	\$93.50	45%	\$108.13
Left X	\$94.72	50%	\$109.78
Left P	5%	55%	\$111.59
Right X	\$155.97	60%	\$113.56
Right P	95%	65%	\$115.78
Diff X	\$61.24	70%	\$118.28
Diff P	90%	75%	\$121.41
#Errors	0	80%	\$125.34
Filter Min		85%	\$130.60
Filter Max		90%	\$139.06
#Filtered	0	95%	\$155.97

Sensitivity			
Rank	Name	Regr	Corr
#1	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.771	-0.864
#2	Cost of larger label / Low / \$B\$43	0.328	0.437
#3	Cost per label for larger label / Large & Small / \$B\$19	0.108	0.144
#4	Number of hours per store / Total / \$D\$8	0.019	0.020
#5	Average number of products per company / Large & Small Firms / \$B\$7	0.007	0.011
#6	labor needed / 1. POP Materials - Undiscounted Costs / \$B\$36	0.005	0.006
#7	Number of hours per store / Small Businesses / \$B\$8	0.000	0.009
#8	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.003
#9	Average number of products per company / Small Firms Only / \$C\$7	0.000	0.003
#10	Cost per label for larger label / Small Firm Only / \$D\$19	0.000	-0.004
#11	Administrative Costs / Mid / \$C\$5	0.000	0.002
#12	Graphic Design / Mid / \$C\$6	0.000	-0.002
#13	Prepress Activities / Mid / \$C\$7	0.000	0.011
#14	Engraving / Mid / \$C\$8	0.000	0.010
#15	NLEA Panel Analysis / Mid / \$C\$11	0.000	0.005
#16	Sticker Costs / Mid / \$C\$4	0.000	-0.009

Appendix C.
Table 3.

Compliance Adjusted Baseline:
Simulation Results for
Alternative 3

TOTALS
/ 13.
Present
Value of
Option 1
Retail +
Processi
ng Plant
Costs
(3%) /
N28



Summary Information	
Workbook Name	NutLabAt14Feb06 IVb_23Mar06_Ve.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/28/2006 8:58
Simulation Stop Time	4/28/2006 9:00
Simulation Duration	00:01:59
Random Seed	1568173645

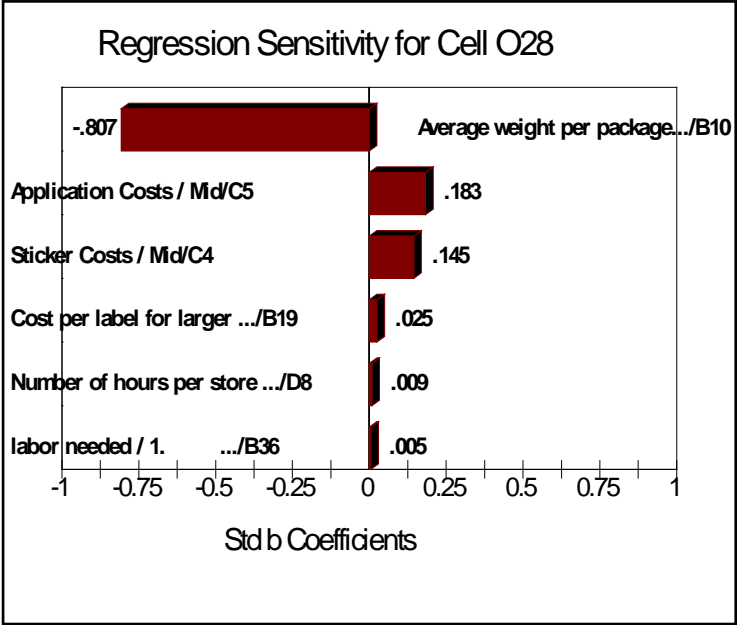
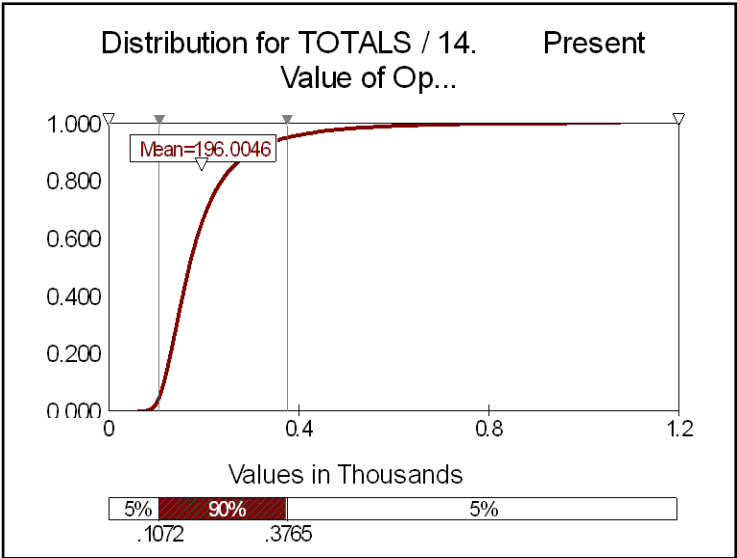
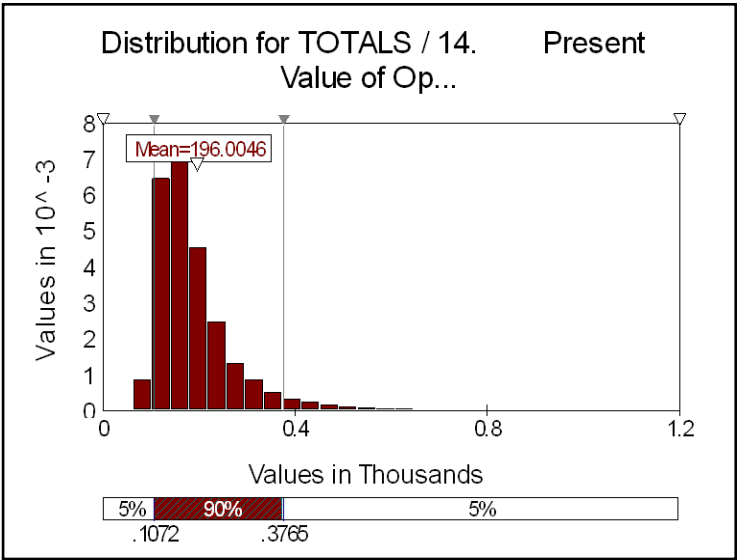
Summary Statistics			
Statisti c	Value	%tile	Value
Minimum	\$112.87	5%	\$127.62
Maximum	\$438.79	10%	\$130.99
Mean	\$156.72	15%	\$133.59
Std Dev	\$30.55	20%	\$135.93
Variance	933.3019486	25%	\$138.03
Skewness	2.70378473	30%	\$140.14
Kurtosis	14.23846121	35%	\$142.20
Median	\$148.77	40%	\$144.28
Mode	\$138.88	45%	\$146.46
Left X	\$127.62	50%	\$148.77
Left P	5%	55%	\$151.33
Right X	\$213.60	60%	\$154.06
Right P	95%	65%	\$157.18
Diff X	\$85.98	70%	\$160.69
Diff P	90%	75%	\$165.09
#Errors	0	80%	\$170.62
Filter Min		85%	\$177.99
Filter Max		90%	\$189.88
#Filtered	0	95%	\$213.60

Sensitivity			
Rank	Name	Regr	Corr
#1	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.771	-0.864
#2	Cost of larger label / Low / \$B\$43	0.328	0.437
#3	Cost per label for larger label / Large & Small / \$B\$19	0.108	0.144
#4	Number of hours per store / Total / \$D\$8	0.019	0.019
#5	Average number of products per company / Large & Small Firms / \$B\$7	0.006	0.009
#6	labor needed / 1. POP Materials - Undiscounted Costs / \$B\$36	0.005	0.006
#7	Number of hours per store / Small Businesses / \$B\$8	0.000	0.009
#8	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.003
#9	Average number of products per company / Small Firms Only / \$C\$7	0.000	0.003
#10	Cost per label for larger label / Small Firm Only / \$D\$19	0.000	-0.004
#11	Administrative Costs / Mid / \$C\$5	0.000	0.000
#12	Graphic Design / Mid / \$C\$6	0.000	-0.003
#13	Prepress Activities / Mid / \$C\$7	0.000	0.010
#14	Engraving / Mid / \$C\$8	0.000	0.009
#15	NLEA Panel Analysis / Mid / \$C\$11	0.000	0.005
#16	Sticker Costs / Mid / \$C\$4	0.000	-0.009

Appendix C.

Table 4.

Compliance Adjusted Baseline:
Simulation Results for Alternative 3
TOTALS / 14. Present Value of Option 2
Retail + Processing Plant Costs (7%) / O28



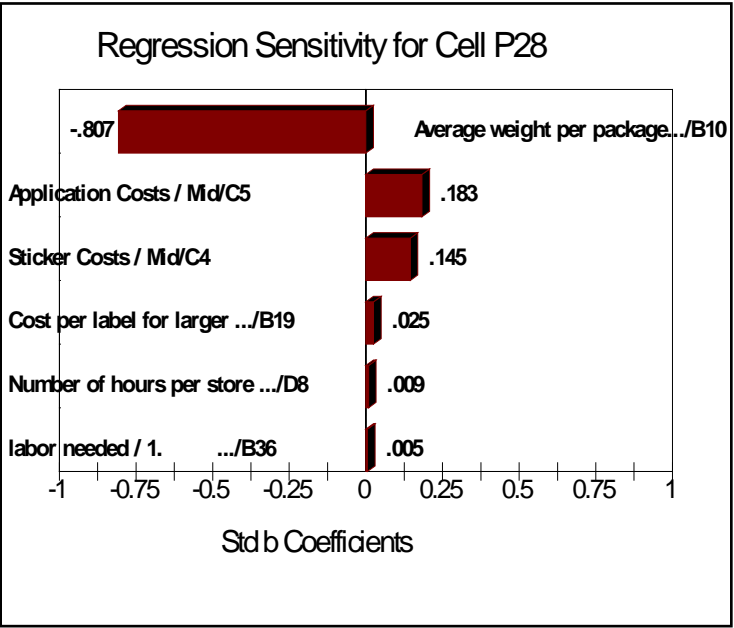
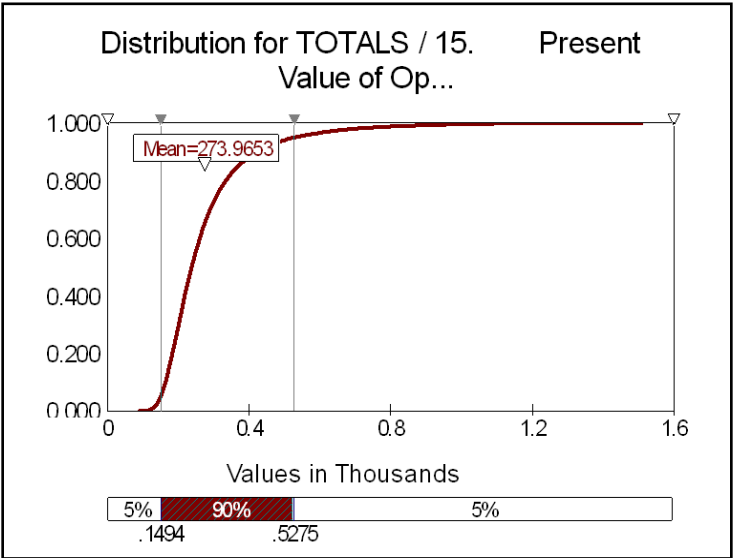
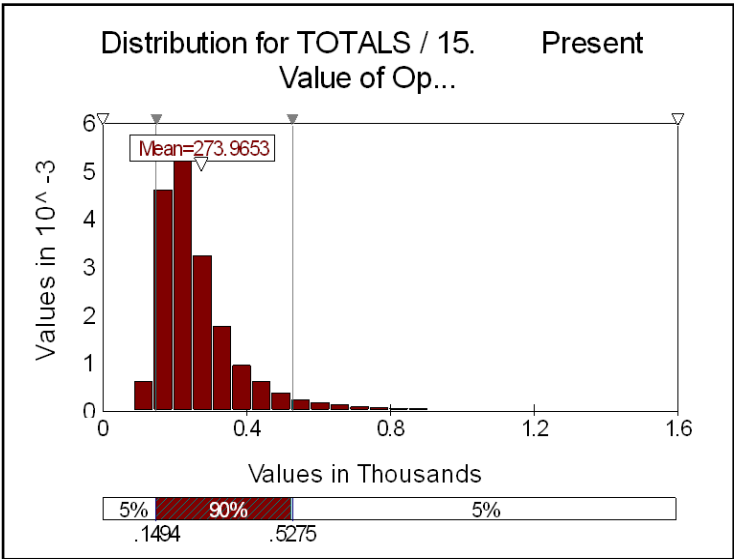
Summary Information	
Workbook Name	NutLabAt14Feb06 IVb_23Mar06_Ve.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/28/2006 8:58
Simulation Stop Time	4/28/2006 9:00
Simulation Duration	00:01:59
Random Seed	1568173645

Summary Statistics			
Statistic	Value	%tile	Value
Minimum	\$63.82	5%	\$107.24
Maximum	\$1,075.38	10%	\$116.79
Mean	\$196.00	15%	\$124.31
Std Dev	\$96.50	20%	\$130.87
Variance	9312.027818	25%	\$137.20
Skewness	2.719310924	30%	\$143.46
Kurtosis	13.90441753	35%	\$149.57
Median	\$169.58	40%	\$155.93
Mode	\$142.86	45%	\$162.56
Left X	\$107.24	50%	\$169.58
Left P	5%	55%	\$177.37
Right X	\$376.52	60%	\$185.98
Right P	95%	65%	\$195.60
Diff X	\$269.28	70%	\$206.91
Diff P	90%	75%	\$220.57
#Errors	0	80%	\$238.58
Filter Min		85%	\$262.54
Filter Max		90%	\$301.52
#Filtered	0	95%	\$376.52

Sensitivity			
Rank	Name	Regr	Corr
#1	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.807	-0.937
#2	Application Costs / Mid / \$C\$5	0.183	0.255
#3	Sticker Costs / Mid / \$C\$4	0.145	0.183
#4	Cost per label for larger label / Large & Small / \$B\$19	0.025	0.032
#5	Number of hours per store / Total / \$D\$8	0.009	0.002
#6	labor needed / 1. POP Materials - Undiscounted Costs / \$B\$36	0.005	0.010
#7	Number of hours per store / Small Businesses / \$B\$8	0.000	0.009
#8	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.002
#9	Average number of products per company / Large & Small Firms / \$B\$7	0.000	0.006
#10	Average number of products per company / Small Firms Only / \$C\$7	0.000	0.004
#11	Cost per label for larger label / Small Firm Only / \$D\$19	0.000	0.002
#12	Cost of larger label / Low / \$B\$43	0.000	-0.002
#13	Administrative Costs / Mid / \$C\$5	0.000	0.003
#14	Graphic Design / Mid / \$C\$6	0.000	-0.002
#15	Prepress Activities / Mid / \$C\$7	0.000	0.006
#16	Engraving / Mid / \$C\$8	0.000	0.008

Appendix C.
Table 5.

Compliance Adjusted Baseline:
Simulation Results for Alternative 3
TOTALS / 15. Present Value of Option
2 Retail + Processing Plant Costs (3%)
/ P28



Summary Information	
Workbook Name	NutLabAt14Feb06 IVb_23Mar06_Ve.xls
Number of Simulations	1
Number of Iterations	50000
Number of Inputs	28
Number of Outputs	47
Sampling Type	Latin Hypercube
Simulation Start Time	4/28/2006 8:58
Simulation Stop Time	4/28/2006 9:00
Simulation Duration	00:01:59
Random Seed	1568173645

Summary Statistics			
Statistic	Value	%tile	Value
Minimum	\$88.48	5%	\$149.36
Maximum	\$1,508.67	10%	\$162.73
Mean	\$273.97	15%	\$173.31
Std Dev	\$135.49	20%	\$182.51
Variance	18358.366	25%	\$191.39
Skewness	2.7193235	30%	\$200.17
Kurtosis	13.904476	35%	\$208.78
Median	\$236.87	40%	\$217.72
Mode	\$199.34	45%	\$226.99
Left X	\$149.36	50%	\$236.87
Left P	5%	55%	\$247.81
Right X	\$527.47	60%	\$259.90
Right P	95%	65%	\$273.35
Diff X	\$378.11	70%	\$289.24
Diff P	90%	75%	\$308.49
#Errors	0	80%	\$333.71
Filter Min		85%	\$367.40
Filter Max		90%	\$422.10
#Filtered	0	95%	\$527.47

Sensitivity			
Ran k	Name	Regr	Corr
#1	Average weight per package of meat and poultry (pounds) / \$B\$10	-0.807	-0.937
#2	Application Costs / Mid / \$C\$5	0.183	0.255
#3	Sticker Costs / Mid / \$C\$4	0.145	0.183
#4	Cost per label for larger label / Large & Small / \$B\$19	0.025	0.032
#5	Number of hours per store / Total / \$D\$8	0.009	0.002
#6	labor needed / 1. POP Materials - Undiscounted Costs / \$B\$36	0.005	0.010
#7	Number of hours per store / Small Businesses / \$B\$8	0.000	0.009
#8	Number of hours per store / Large Businesses / \$C\$8	0.000	-0.002
#9	Average number of products per company / Large & Small Firms / \$B\$7	0.000	0.005
#10	Average number of products per company / Small Firms Only / \$C\$7	0.000	0.004
#11	Cost per label for larger label / Small Firm Only / \$D\$19	0.000	0.002
#12	Cost of larger label / Low / \$B\$43	0.000	-0.002
#13	Administrative Costs / Mid / \$C\$5	0.000	0.002
#14	Graphic Design / Mid / \$C\$6	0.000	-0.002
#15	Prepress Activities / Mid / \$C\$7	0.000	0.005
#16	Engraving / Mid / \$C\$8	0.000	0.008

Appendix D. Table 1. Summary of Estimated Additional Costs by Alternative for the Nutrition Labeling Rule

Alternatives:	Option	Baseline	Annualized Costs (20-year)				Annualized Costs (20-year)				Present Value (20-year)				Present Value (20-year)			
			Discounted 3 Percent, \$Millions				Discounted 7 Percent, \$Millions				Discounted 3 Percent, \$Millions				Discounted 7 Percent, \$Millions			
			Mean	Median	5th Pct.	95th Pct.	Mean	Median	5th Pct.	95th Pct.	Mean	Median	5th Pct.	95th Pct.	Mean	Median	5th Pct.	95th Pct.
1. status quo	na ²																	
2. POP manuals for all products:																		
Total ⁷	na	Baseline I ³	8.28	8.28	8.03	8.53	8.28	8.28	8.03	8.53	123.19	123.20	119.49	126.90	87.74	87.74	85.10	90.38
Ground & chopped			na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Major cuts			na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Non-major cuts			na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3. On-package labels for ground and chopped products; POP placards for major cuts:																		
Total	Option 1 ⁵	Baseline I	31.74	30.06	25.59	43.71	32.85	31.18	26.70	44.82	472.23	447.26	380.76	650.23	348.06	330.30	282.88	474.79
Ground & chopped			28.86	27.19	22.37	41.13	29.92	28.25	23.43	42.19	429.41	404.47	332.79	611.95	316.98	299.23	248.20	446.92
Major cuts			2.88	2.88	2.77	2.99	2.93	2.93	2.82	3.04	42.82	42.82	41.18	44.48	31.07	31.07	29.88	32.25
Total	Option 2 ⁶	Baseline I	56.35	48.59	30.06	109.67	56.60	48.84	30.30	109.94	838.40	722.94	447.16	1631.65	599.64	517.42	321.02	1164.68
Ground & chopped			53.48	45.72	26.90	107.12	53.67	45.91	27.09	107.31	795.58	680.25	400.14	1593.66	568.57	486.42	286.97	1136.82
Major cuts			2.88	2.88	2.77	2.99	2.93	2.93	2.82	3.04	42.82	42.82	41.18	44.48	31.07	31.07	29.88	32.25
Total	Option 1	Baseline II ⁴	10.53	10.00	8.58	14.36	10.90	10.36	8.94	14.72	156.72	148.77	127.62	213.60	115.45	109.78	94.72	155.97
Ground & chopped			9.23	8.70	7.18	13.13	9.57	9.04	7.52	13.47	137.37	129.41	106.89	195.37	101.41	95.74	79.69	142.70
Major cuts			1.30	1.30	1.25	1.35	1.33	1.33	1.28	1.38	19.35	19.35	18.61	20.09	14.04	14.04	13.51	14.58
Total	Option 2	Baseline II	18.42	15.92	10.04	35.45	18.50	16.01	10.12	35.54	273.97	236.87	149.36	527.47	196.00	169.58	107.24	376.52
Ground & chopped			17.11	14.61	8.66	34.22	17.18	14.68	8.72	34.28	254.61	217.42	128.85	509.10	181.96	155.48	92.39	363.21
Major cuts			1.30	1.30	1.25	1.35	1.33	1.33	1.28	1.38	19.35	19.35	18.61	20.09	14.04	14.04	13.51	14.58
4. On-package labels for ground and chopped products and major cuts																		
Total	Option 1	Baseline I	74.20	73.52	61.03	89.45	76.75	76.06	63.58	91.98	1103.97	1093.85	907.92	1330.84	813.04	805.76	673.61	974.42
Ground & chopped			28.86	na	na	na	29.92	na	na	na	429.41	na	na	na	316.98	na	na	na
Major cuts			45.34	na	na	na	46.82	na	na	na	674.49	na	na	na	496.00	na	na	na
5. On-package labels for ground and chopped products, major cuts, and minor cuts																		
Total	Option 1	Baseline I	87.30	86.57	73.14	103.54	90.29	89.55	76.30	106.42	1298.82	1287.92	1088.07	1540.35	956.54	948.70	808.36	1127.42
Ground & chopped			28.86	na	na	na	29.92	na	na	na	429.41	na	na	na	316.98	na	na	na
Major cuts			45.34	na	na	na	46.82	na	na	na	674.49	na	na	na	496.00	na	na	na
Non-major cuts			13.10	na	na	na	13.54	na	na	na	194.84	na	na	na	143.49	na	na	na

Notes:

- (1) The costs are from a probabilistic (stochastic) simulation model that used @Risk Software Version 4.5 (Palisade Corporation, Ithaca, NY)
- (2) "na" means "not applicable" or that this information does not apply to this alternative, or information not available.
- (3) Baseline I is the baseline without consideration of compliance levels for major cuts and ground single-ingredient products
- (4) Baseline II is the baseline with consideration of compliance levels for major cuts (54.8% of retail stores) and ground single-ingredient products (68% of packages of ground meat and poultry)
- (5) Option 1: prints labels for the ground and chopped single-ingredient products in each of the stores
- (6) Option 2: purchases printed labels for the ground and chopped single-ingredient products in each of the stores

Appendix D. Table 2. Stochastic Model Framework of Output for Total and Discounted Costs for Nutrition Labeling Rule: Alternative 3

Total and Discounted Costs for Nutrition Labeling Rule: Alternative 3
costs discounted over 20-year period using 7% and 3% discount factor
(\$\$ in millions)

Row/Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Year	1. (cols. a+d) Option 1 Retail Annual Costs	2. (cols. a+e) Option 2 Retail Annual Costs	3. (cols. b+c) Annual Processing Plant Costs	4. (cols. 1+3) Annual Option 1 Retail + Processing Plant Costs	5. (cols. 2+3) Annual Option 2 Retail + Processing Plant Costs	6. Present Value of Option 1 Retail Costs (cols. a+d) (7%)	7. Present Value of Option 1 Retail Costs (cols. a+d) (3%)	8. Present Value of Option 2 Retail Costs (cols. a+e) (7%)	9. Present Value of Option 2 Retail Costs (cols. a+e) (3%)	10. Present Value of Processing Plant Costs (cols. b+c) (7%)	11. Present Value of Processing Plant Costs (cols. b+c) (3%)	12. Present Value of Option 1 Retail + Processing Plant Costs (cols. 1+3) (7%)	13. Present Value of Option 1 Retail + Processing Plant Costs (cols. 1+3) (3%)	14. Present Value of Option 2 Retail + Processing Plant Costs (cols. 2+3) (7%)	15. Present Value of Option 2 Retail + Processing Plant Costs (cols. 2+3) (3%)
1	\$75.58	\$50.83	\$7.81	\$83.39	\$58.64	\$70.67	\$73.39	\$47.53	\$49.36	\$7.30	\$7.58	\$77.97	\$80.97	\$54.83	\$56.94
2	12.33	42.51	2.42	14.75	44.93	10.77	11.63	37.11	40.09	2.11	2.28	12.88	13.91	39.22	42.37
3	18.01	48.18	2.42	20.43	50.60	14.69	16.48	39.32	44.09	1.98	2.21	16.67	18.69	41.29	46.30
4	12.33	42.51	2.42	14.75	44.93	9.41	10.95	32.44	37.75	1.85	2.15	11.26	13.10	34.28	39.90
5	18.01	48.18	2.42	20.43	50.60	12.84	15.54	34.35	41.58	1.73	2.09	14.56	17.63	36.08	43.67
6	68.68	42.51	2.42	71.10	44.93	45.74	57.49	28.31	35.58	1.61	2.03	47.35	59.51	29.92	37.61
7	18.01	48.18	2.42	20.43	50.60	11.22	14.64	30.02	39.17	1.51	1.97	12.73	16.61	31.53	41.14
8	12.33	42.51	2.42	14.75	44.93	7.18	9.73	24.74	33.54	1.41	1.91	8.59	11.64	26.15	35.45
9	18.01	48.18	2.42	20.43	50.60	9.80	13.79	26.21	36.91	1.32	1.85	11.11	15.65	27.53	38.76
10	12.33	42.51	2.42	14.75	44.93	6.27	9.18	21.60	31.63	1.23	1.80	7.49	10.98	22.82	33.43
11	74.36	48.18	2.42	76.78	50.60	35.32	53.68	22.89	34.79	1.15	1.75	36.47	55.43	24.04	36.54
12	12.33	42.51	2.42	14.75	44.93	5.48	8.65	18.87	29.80	1.07	1.70	6.55	10.34	19.95	31.50
13	18.01	48.18	2.42	20.43	50.60	7.47	12.26	20.00	32.81	1.00	1.65	8.48	13.91	21.00	34.46
14	12.33	42.51	2.42	14.75	44.93	4.79	8.15	16.49	28.10	0.94	1.60	5.72	9.75	17.43	29.70
15	18.01	48.18	2.42	20.43	50.60	6.52	11.56	17.44	30.93	0.88	1.55	7.39	13.11	18.32	32.49
16	68.68	42.51	2.42	71.10	44.93	23.28	42.79	14.41	26.48	0.82	1.51	24.10	44.30	15.23	27.99
17	18.01	48.18	2.42	20.43	50.60	5.71	10.89	15.27	29.15	0.77	1.46	6.48	12.36	16.04	30.62
18	12.33	42.51	2.42	14.75	44.93	3.65	7.24	12.58	24.95	0.72	1.42	4.37	8.66	13.30	26.37
19	18.01	48.18	2.42	20.43	50.60	4.99	10.26	13.35	27.46	0.67	1.38	5.66	11.64	14.02	28.84
20	12.33	42.51	2.42	14.75	44.93	3.18	6.83	10.97	23.55	0.62	1.34	3.81	8.17	11.59	24.89
TOTALS	\$530.01	\$909.58	\$53.80	\$583.81	\$963.38	\$298.96	\$405.13	\$483.90	\$677.73	\$30.68	\$41.24	\$329.64	\$446.37	\$514.58	\$718.97
Years 6-10	129.36	223.90	12.10	141.46	236.00	80.20	104.82	130.88	176.83	7.08	9.56	87.27	114.38	137.95	186.39
Years 11-20	264.39	453.47	24.21	288.60	477.67	100.38	172.32	162.28	288.04	8.64	15.36	109.03	187.68	170.92	303.40

Appendix D. Table 2 (continued). Stochastic Model Framework of Output for Total and Discounted Costs for Nutrition Labeling Rule: Alternative 3

Row/Column	a.	b.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.	m.	n.	o.
			c. Larger Labels on Ground or Chopped Meat and Poultry Products Costs (Processing Plants)												
Year	a. Purchasing and Installing POP Placards Costs (Retail)	b. Modifying Product Labels Costs (Processing Plants)		d. Option 1 Labels Printed Costs (Retail)	e. Option 2 Labels Preprinted Costs (Retail)	f. Present Value of POP Placards Costs (Retail) (column a) (7%)	g. Present Value of POP Placards Costs (Retail) (column a) (3%)	h. Present Value of Modifying Product Labels Costs (Plants) (column b) (7%)	i. Present Value of Modifying Product Labels Costs (Plants) (column b) (3%)	j. Present Value of Larger Labels on Ground or Chopped Meat and Poultry Products Costs (Plants) (column c) (7%)	k. Present Value of Larger Labels on Ground or Chopped Meat and Poultry Products Costs (Plants) (column c) (3%)	l. Present Value of Option 1 Labels Printed Costs (Retail) (column d) (7%)	m. Present Value of Option 1 Labels Printed Costs (Retail) (column d) (3%)	n. Present Value of Option 2 Labels Preprinted Costs (Retail) (column e) (7%)	o. Present Value of Option 2 Labels Preprinted Costs (Retail) (column e) (3%)
1	\$5.67	\$5.39	\$2.42	\$69.91	\$45.16	\$5.30	\$5.51	\$5.04	\$5.23	\$2.26	\$2.35	\$65.37	\$67.88	\$42.23	\$43.85
2	0.00	0.00	2.42	12.33	42.51	0.00	0.00	0.00	0.00	2.11	2.28	10.77	11.63	37.11	40.09
3	5.67	0.00	2.42	12.33	42.51	4.63	5.19	0.00	0.00	1.98	2.21	10.06	11.28	34.69	38.90
4	0.00	0.00	2.42	12.33	42.51	0.00	0.00	0.00	0.00	1.85	2.15	9.41	10.95	32.44	37.75
5	5.67	0.00	2.42	12.33	42.51	4.04	4.90	0.00	0.00	1.73	2.09	8.79	10.64	30.31	36.69
6	0.00	0.00	2.42	68.68	42.51	0.00	0.00	0.00	0.00	1.61	2.03	45.74	57.49	28.31	35.58
7	5.67	0.00	2.42	12.33	42.51	3.53	4.61	0.00	0.00	1.51	1.97	7.68	10.03	26.48	34.56
8	0.00	0.00	2.42	12.33	42.51	0.00	0.00	0.00	0.00	1.41	1.91	7.18	9.73	24.74	33.54
9	5.67	0.00	2.42	12.33	42.51	3.09	4.35	0.00	0.00	1.32	1.85	6.71	9.45	23.13	32.56
10	0.00	0.00	2.42	12.33	42.51	0.00	0.00	0.00	0.00	1.23	1.80	6.27	9.18	21.60	31.63
11	5.67	0.00	2.42	68.68	42.51	2.69	4.10	0.00	0.00	1.15	1.75	32.62	49.59	20.19	30.69
12	0.00	0.00	2.42	12.33	42.51	0.00	0.00	0.00	0.00	1.07	1.70	5.48	8.65	18.87	29.80
13	5.67	0.00	2.42	12.33	42.51	2.35	3.86	0.00	0.00	1.00	1.65	5.12	8.40	17.64	28.95
14	0.00	0.00	2.42	12.33	42.51	0.00	0.00	0.00	0.00	0.94	1.60	4.79	8.15	16.49	28.10
15	5.67	0.00	2.42	12.33	42.51	2.05	3.64	0.00	0.00	0.88	1.55	4.46	7.92	15.39	27.29
16	0.00	0.00	2.42	68.68	42.51	0.00	0.00	0.00	0.00	0.82	1.51	23.28	42.79	14.41	26.48
17	5.67	0.00	2.42	12.33	42.51	1.80	3.43	0.00	0.00	0.77	1.46	3.91	7.46	13.48	25.72
18	0.00	0.00	2.42	12.33	42.51	0.00	0.00	0.00	0.00	0.72	1.42	3.65	7.24	12.58	24.95
19	5.67	0.00	2.42	12.33	42.51	1.57	3.23	0.00	0.00	0.67	1.38	3.42	7.03	11.78	24.23
20	0.00	0.00	2.42	12.33	42.51	0.00	0.00	0.00	0.00	0.62	1.34	3.18	6.83	10.97	23.55
TOTALS	\$56.73	\$5.39	\$48.41	\$473.29	\$852.86	\$31.07	\$42.82	\$5.04	\$5.23	\$25.64	\$36.01	\$267.89	\$362.32	\$452.83	\$634.92
Years 6-10	11.35	0.00	12.10	118.01	212.55	6.62	8.96	0.00	0.00	7.08	9.56	73.58	95.87	124.26	167.87
Years 11-20	28.36	0.00	24.21	236.03	425.10	10.47	18.27	0.00	0.00	8.64	15.36	89.91	154.06	151.80	269.77