



memorandum

Education and Family Support

Abt Associates Inc.

Date October 24, 2005

To Fred Lesnett

From Ellen Bobronnikov

Subject PC2004 Food Package Analysis

Enclosed are the tables presenting the PC2004 food package analysis. The tables follow the same format as the tables prepared for PC2002, PC2000 and PC98 except for two changes: 1) there is a row added to the quantity of infant formulas prescribed to distinguish the percent of infants receiving 95 to 99 percent of the federal maximum, and 2) there is the added row to distinguish exclusively from nonexclusively breastfeeding women. The analysis covers the 50 States, including Puerto Rico and Washington DC (except North Dakota¹). As with the previous food package analyses, we coded all food packages received by 95 percent of the participants within each certification category. In addition, all special formula packages were coded.

As stated for PC2002, when looking at the tables, please keep in mind that the certification category is the one under which the participant was certified (at the beginning of the most recent certification period) and the food package reflects the prescription issued in April 2004. Some States report that they reclassify participants without recertifying them. This implies that, in some cases, the prescription and certification category may not be consistent. This should only affect a small percentage of cases, and should not present any problems for national-level analyses. In addition, some States report that they begin to give child food packages to infants at the age of eleven months.

Please feel free to call me with any questions you may have as you review the information.

¹ North Dakota does manual issuance; no electronic data are available.

Exhibit FP1

Quantity and Types of Formula Prescribed for WIC Infants and Children in April 2004

	Age of Infant				Total Infants ^a	Children Receiving Formula ^b
	0-3 months	4-6 months	7 months and older	Age not reported		
Quantity						
Federal maximum (oz) ^c	806	806	806	806	806	806
Mean (oz), all ^c	698.4	729.1	736.0	724.3	720.5	807.2
Mean (oz), receiving formula ^c	744.7	775.3	778.7	765.3	765.5	807.2
Percent receiving federal maximum	48.7	52.9	51.8	46.0	51.0	49.5
Percent receiving 95 percent or more of federal maximum	28.5	30.5	31.0	29.6	29.9	40.3
Percent receiving 75-95 percent of federal maximum	2.8	2.3	3.9	8.2	3.1	3.1
Percent receiving 50-75 percent of federal maximum	4.3	2.3	2.2	4.9	3.0	4.6
Percent receiving less than 50 percent of federal maximum	9.5	6.1	5.6	5.9	7.2	2.5
Percent receiving none	6.2	6.0	5.5	5.4	5.9	0.0
Form Allowable ^d						
Concentrate	45.5	47.9	46.1	36.4	46.4	21.0
Powdered	70.1	67.9	64.7	66.0	67.5	43.3
Ready-to-feed	15.3	15.6	10.5	1.2	13.6	38.5
Type Allowable ^d						
With iron	99.8	99.7	99.7	99.8	99.7	99.7
Low-iron	0.2	0.2	0.1	0.2	0.2	0.2
Milk-based	89.1	87.5	86.7	94.0	87.8	68.6
Soy-based	35.9	36.5	33.3	79.5	35.1	20.5
Lactose-free	12.9	12.9	13.6	78.9	13.2	51.5
Metabolic	7.5	7.4	6.4	3.0	7.1	13.1
Hydrolysate	3.2	3.0	2.4	0.0	2.8	0.2
Special	4.5	4.2	3.5	0.9	4.0	15.8
Hydrolysate or Special	8.3	8.2	7.2	3.7	7.8	26.2
Formula Type						
Nonexempt	80.7	80.5	85.9	95.8	82.5	49.6
Exempt	4.6	4.6	4.3	3.6	4.5	13.2
Medical food	0.3	0.3	0.2	0.1	0.3	36.9
Not specified	14.4	14.6	9.6	0.6	12.7	0.3
N	695,253	528,984	696,780	952	1,921,968	50,212

Source: PC2004 participant characteristics data. Analysis includes the 50 states, D.C., and Puerto Rico (except North Dakota).
Notes:

^aExcludes infants receiving milk packages.

^b1.2 percent of participants classified as children received food packages containing formula.

^cReady-to-feed formula. Concentrate and powdered formula converted to ready-to-feed equivalent based on reconstitution rates.

^dResponses are not mutually exclusive so percentages may add to more than 100 percent.

Exhibit FP1a

Quantity and Types of Formula Prescribed for WIC Infants

	All Infants
Quantity	
Federal maximum (oz) ^a	806
Mean (oz), all ^a	680.8
Mean (oz), receiving formula ^a	765.5
Percent receiving federal maximum	48.2
Percent receiving 95 percent or more of federal maximum	28.3
Percent receiving 75-95 percent of federal maximum	2.9
Percent receiving 50-75 percent of federal maximum	2.8
Percent receiving less than 50 percent of federal maximum	6.8
Percent receiving none	11.1
N	2,033,947

Source: PC2004 participant characteristics data. Analysis includes the 50 states, D.C., and Puerto Rico (except North Dakota).

Notes:

^aReady-to-feed formula. Concentrate and powdered formula converted to ready-to-feed equivalent based on reconstitution rates.

Exhibit FP2

Quantity and Types of Milk Products Prescribed for WIC Participants by Participant Category

	Quantity							N
	Federal Maximum (quarts) ^a	Mean (quarts) ^a	Percent Receiving Federal Maximum	Percent Receiving 75 Percent or More of Federal Maximum	Percent Receiving 50-75 Percent of Federal Maximum	Percent Receiving Less Than 50 Percent of Federal Maximum	Percent Receiving None	
Pregnant women	28	21.0	2.5	62.3	32.9	2.1	0.1	895,989
Non-exclusively Breastfeeding women	28	20.7	1.7	61.7	33.8	2.6	0.2	355,762
Exclusively Breastfeeding women	28	22.0	8.1	73.7	15.1	2.7	0.3	133,353
Postpartum women	24	17.2	3.2	59.4	34.4	2.7	0.2	617,752
Children	24	16.8	2.1	49.6	46.4	1.9	0.1	3,993,533
Infants ^c	24	16.4	0.3	55.5	43.6	0.5	0.0	111,837

Participant Category	Form Allowable ^b			Type Allowable ^b									
	Fluid	Dry	Evapo-rated	Whole	Reduced fat (2%)	Low-fat (1 or 1 ½%)	Skim or Non-fat (0.5% or less)	Acidophilus	Lactose Reduced	UHT	Butter-milk	Goat	Kosher
Pregnant women	99.5	24.0	31.2	96.0	95.2	92.8	93.8	12.0	11.8	5.8	12.6	4.5	5.9
Non-exclusively Breastfeeding women	98.3	25.1	34.3	93.5	93.3	91.8	92.4	10.9	7.2	4.3	13.8	4.0	6.0
Exclusively Breastfeeding women	99.6	35.8	41.7	95.5	96.8	97.1	97.0	7.9	12.6	3.9	8.9	3.6	4.7
Breastfeeding women	99.5	22.8	27.8	97.0	95.6	94.3	94.0	12.2	8.4	4.0	18.2	2.8	4.0
Children	98.8	28.7	33.1	97.5	79.5	76.8	76.7	10.5	6.7	1.9	13.3	0.6	1.3
Infants ^c	99.9	20.2	21.4	100.0	35.5	32.7	32.7	5.3	4.9	0.1	1.9	0.0	2.3

Source: PC2004 participant characteristics data. Analysis includes the 50 states, D.C., and Puerto Rico (except North Dakota).

Notes:

^a Fluid milk. Evaporated or dry milk converted to fluid equivalent.

^b Responses are not mutually exclusive so percentages may add to more than 100 percent.

^c These participants were classified as infants at their most recent certification. Many states reported providing food packages containing milk to infants who were eleven months or older in April 2004. They represent 5.5 percent of all those certified as infants.

Exhibit FP3

Quantity of Cheese Prescribed for WIC Participants by Participant Category

	Quantity								N
	Federal Maximum (lbs) ^a	Mean All (lbs)	Mean Receiving Cheese (lbs.)	Percent Receiving Federal Maximum	Percent Receiving 75 Percent or More of Federal Maximum	Percent Receiving 50-75 Percent of Federal Maximum	Percent Receiving Less Than 50 Percent of Federal Maximum	Percent Receiving None	
Pregnant women	4	1.8	1.9	2.9	4.7	68.5	20.8	3.1	895,989
Non-exclusively breastfeeding women	4	1.8	1.9	2.3	2.7	71.5	20.3	3.1	355,762
Exclusively breastfeeding women	5	2.1	2.1	1.0	3.3	37.2	58.2	0.3	133,353
Postpartum women	4	1.6	1.7	1.0	1.4	60.9	32.0	4.8	617,752
Children	4	1.6	1.7	0.5	0.6	59.0	34.3	5.6	4,043,745
Infants ^b	4	1.7	1.8	0.1	0.2	74.8	23.0	1.9	111,837

Source: PC2004 participant characteristics data. Analysis includes the 50 states, D.C., and Puerto Rico (except North Dakota).

Notes:

^a Additional cheese may be issued on an individual basis.

^b These participants were classified as infants at their most recent certification. Many states reported providing food packages containing milk to infants who were eleven months or older in April 2004. They represent 5.5 percent of all those certified as infants.

Exhibit FP4

Quantity of Juice Prescribed for WIC Participants by Participant Category

	Quantity								N
	Federal Maximum (oz) ^a	Mean All (oz) ^a	Mean Receiving Juice (oz.) ^a	Percent Receiving Federal Maximum	Percent Receiving 75 Percent or More of Federal Maximum	Percent Receiving 50-75 Percent of Federal Maximum	Percent Receiving Less Than 50 Percent of Federal Maximum	Percent Receiving None	
Pregnant women	276	268.0	268.1	88.6	4.7	6.3	0.4	0.0	895,989
Non-exclusively breastfeeding women	276	261.6	262.0	84.3	1.5	13.5	0.6	0.2	355,762
Exclusively breastfeeding women	322	316.7	316.8	94.6	2.5	1.2	1.7	0.0	133,353
Postpartum women	184	185.0	185.3	95.1	3.0	1.4	0.3	0.2	617,752
Infants aged 4-12 months	92	71.1	97.6	50.9	2.0	19.6	0.3	27.2	1,337,043
Children	276	214.2	214.5	42.9	3.9	51.7	1.3	0.2	4,043,745

Source: PC2004 participant characteristics data. Analysis includes the 50 states, D.C., and Puerto Rico (except North Dakota).

Notes:

^a Single strength juice. Concentrated juice converted to single strength equivalent. Federal maximum for concentrated juice is slightly higher: pregnant and non-exclusively breastfeeding (288 oz.); exclusively breastfeeding (366 oz.); postpartum (192 oz.); infants (96 oz.); children (288 oz.).

Exhibit FP5

Quantity of Cereal Prescribed for WIC Participants by Participant Category^a

	Federal Maximum (oz)	Mean All (oz)	Mean Receiving Cereal (oz.)	Percent Receiving Federal Maximum	Quantity Percent Receiving 75 Percent or More of Federal Maximum	Percent Receiving 50-75 Percent of Federal Maximum	Percent Receiving Less Than 50 Percent of Federal Maximum	Percent Receiving None	N
Pregnant women	36	35.3	35.4	94.4	1.0	4.2	0.0	0.4	895,989
Non-exclusively breastfeeding women	36	35.2	35.4	94.1	1.9	3.5	0.0	0.5	355,762
Exclusively breastfeeding women	36	35.3	35.9	97.8	0.1	0.5	0.0	1.6	133,353
Postpartum women	36	34.8	35.0	88.8	5.3	5.3	0.0	0.5	617,752
Infants aged 4-12 months	24	19.9	22.5	63.2	0.1	22.4	2.8	11.5	1,337,043
Children	36	34.8	34.9	88.5	6.7	4.2	0.3	0.3	4,043,745

Source: PC2004 participant characteristics data. Analysis includes the 50 states, D.C., and Puerto Rico (except North Dakota).

Notes

^a Infants receive infant cereal. All others receive adult cereal

Exhibit FP6

Quantity of Eggs Prescribed for WIC Participants by Participant Category

	Quantity								N
	Federal Maximum (dozen) ^a	Mean All (dozen) ^a	Mean Receiving Eggs (dozen) ^a	Percent Receiving Federal Maximum	Percent Receiving 75 Percent or More of Federal Maximum	Percent Receiving 50-75 Percent of Federal Maximum	Percent Receiving Less Than 50 Percent of Federal Maximum ^b	Percent Receiving None	
Pregnant women	2.5	2.0	2.0	6.3	90.5	0.1	2.9	0.2	895,989
Non-exclusively breastfeeding women	2.5	2.0	2.0	11.4	83.7	0.4	4.2	0.3	355,762
Exclusively breastfeeding women	2.5	2.0	2.0	5.0	92.2	0.2	1.7	0.9	133,353
Postpartum women	2.5	1.8	1.9	2.4	79.7	2.2	11.0	4.8	617,752
Children	2.5	1.9	1.9	3.2	85.3	0.2	9.9	1.5	4,043,745

Source: PC2004 participant characteristics data. Analysis includes the 50 states, D.C., and Puerto Rico (except North Dakota).

Notes:

^a Fresh eggs. Dried egg mix converted to fresh equivalent.

Exhibit FP7

Quantity and Type of Legumes Prescribed for WIC Participants by Participant Category

	Type Allowable ^a		Quantity								N
	Peanut Butter	Dried Beans/Peas	Federal Maximum (oz) ^b	Mean All (oz) ^b	Mean Receiving (oz) ^b	Percent Receiving Federal Maximum	Percent Receiving 75 Percent or More of Federal Maximum	Percent Receiving 50-75 Percent of Federal Maximum	Percent Receiving Less Than 50 Percent of Federal Maximum	Percent Receiving None	
Pregnant women	58.2	70.0	16/18	16.3	17.1	94.7	0.0	0.4	0.0	4.9	895,989
Non-exclusively breastfeeding women	45.1	68.3	16/18	15.0	17.0	87.7	0.0	0.3	0.0	11.9	355,762
Exclusively breastfeeding women	65.7	98.2	32/34	32.3	32.5	95.6	0.0	3.3	0.3	0.8	133,353
Children	50.5	73.7	16/18	16.2	16.8	96.3	0.0	0.2	0.1	3.4	4,043,745

Source: PC2004 participant characteristics data. Analysis includes the 50 states, D.C., and Puerto Rico (except North Dakota).

Notes:

^a Food package contains either peanut butter, beans, or both.

^b Maximum for pregnant, non-exclusively breastfeeding women and children is 16 ounces dried beans/peas, or 18 ounces peanut butter. Maximum for exclusively breastfeeding women is 16 ounces dried beans/peas and 18 ounces peanut butter or 32 ounces dried beans/peas. If participant can choose either beans or peanut butter, quantity is coded as 17 ounces.

Exhibit FP7a

Quantity and Type of Legumes Prescribed for WIC Participants by Participant Category

	Certification Category			
	Pregnant Women	Non-Exclusively Breastfeeding women-	Exclusively Breastfeeding Women	Children
Type Received ^a				
Peanut Butter	26.2	22.1	44.0	23.3
Dried Beans/Peas	38.5	45.3	94.5	46.5
Indeterminant ^b	32.0	23.0	21.4	27.0
Quantity				
Federal maximum	16/18	16/18	32/34	16/18
Mean All (oz) ^c	16.3	15.0	32.3	16.2
Mean Receiving (oz) ^c	17.1	17.0	32.5	16.8
Peanut Butter	18.2	18.9	22.2	18.1
Beans	16.0	16.1	23.0	16.0
Indeterminant ^b	16.9	16.9	19.0	16.9
Percent receiving federal maximum	94.7	87.7	95.6	96.3
Percent receiving 75 percent or more of federal maximum	0.0	0.0	0	0.0
Percent receiving 50-75 percent of federal maximum	0.4	0.3	3.3	0.2
Percent receiving less than 50 percent of federal maximum	0.0	0.0	0.3	0.1
Percent receiving none	4.9	11.9	0.8	3.4
N	895,989	355,762	133,353	4,043,745

Source: PC2004 participant characteristics data. Analysis includes the 50 states, D.C., and Puerto Rico (except North Dakota).

Notes:

^a Pregnant, non-exclusively breastfeeding women and children: does not add to 100% as some participants did not receive any peanut butter or beans.

Exclusively breastfeeding women: counted in both peanut butter and beans if received both.

^b Food package contains either peanut butter or beans.

^c Maximum for pregnant, non-exclusively breastfeeding women and children is 16 ounces dried beans/peas, or 18 ounces peanut butter. Maximum for exclusively breastfeeding women is 16 ounces dried beans/peas and 18 ounces peanut butter or 32 ounces dried beans/peas. If participant can choose either beans or peanut butter, quantity is coded as 17 ounce

Exhibit FP8

Quantities of Carrots and Tuna Prescribed for Exclusively Breastfeeding Women

	Percent of Exclusively Breastfeeding Women
<i>Carrots: Federal maximum of 2 pounds</i>	
Percent receiving federal maximum	97.8
Percent receiving 75 percent or more of federal maximum	0.0
Percent receiving 50-75 percent of federal maximum	2.2
Percent receiving less than 50 percent of federal maximum	0.0
Percent receiving none	0.1
Mean all (pounds)	2.0
Mean receiving carrots (pounds)	2.0
<i>Tuna: Federal maximum of 26 ounces</i>	
Percent receiving federal maximum	31.9
Percent receiving 75 percent or more of federal maximum	65.7
Percent receiving 50-75 percent of federal maximum	0.5
Percent receiving less than 50 percent of federal maximum	0.1
Percent receiving none	1.7
Mean all (ounces)	24.3
Mean receiving tuna (ounces)	24.7
N	133,353

Source: PC2004 participant characteristics data. Analysis includes the 50 states, D.C., and Puerto Rico (except North Dakota).