A Study of Packaging Efficiency

As It Relates to Waste Prevention

20th Anniversary Edition

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EXECUTIVE SUMMARY

A. Background

This study, which is a follow-up to similar packaging efficiency studies performed in $\underline{1995}$ and $\underline{2007}$, is designed to do the following:

- 1. Provide clear and compelling examples of the value of source reduction as a strategy for developing and evaluating sustainable packaging.
- 2. Identify key characteristics of product/package configurations that add to their overall level of efficiency and sustainability.
- 3. Promote the use of this data as a way to ensure that cradle-to-grave analyses (raw material extraction through final disposal), which compare packaging alternatives, take into account all relevant information.
- 4. Illustrate how packaging decisions reflect consumer needs and expectations, and are not made lightly or "in a vacuum".

B. Methodology

- 1. Fifty-six high volume product categories were chosen from four outlet types: supermarkets, mass/general merchandise, drug/health & beauty aid, and "big-box" club stores. Over 300 products and packages were analyzed.
- 2. The package-to-weight ratio was determined by dividing the weight of the product by the total weight of the product and its package, creating a percentage. The closer the product percentage comes to 1.00, the more efficient the package.
- 3. Using the greater of two percentages the EPA's latest recycling (recovery for reuse) figures or the level of post-consumer recycled content as listed on packages credit was given for use or creation of diverted materials.
- 4. The following formula was then applied and net discards (the amount of landfilled material) within categories compared:

C. MAJOR FINDINGS

- 1. <u>Consistent with previous studies, the best way to reduce materials going to landfills</u> <u>(net discards) continues to be through the use of lighter weight packaging</u>. In general, bags, pouches, and aseptic packages are significantly lighter and thus more efficient than rigid containers, regardless of the materials used to construct flexible plastic packages, or the much higher recycling rates of the materials used to produce rigid containers. (See Table 3.)
- 2. While not as significant a factor as source reduction, recycling of primary packaging (defined as recovered material) plays a prominent and growing role in reducing discards. This is especially true for steel and aluminum cans, beverage bottles made from PETE, HPDE and glass, and paperboard cartons. As shown in Table 4, these materials are collectively recycled at a 34.2% rate today, up significantly versus 25.7% in 2005. In fact, the level of primary packaging recycling is now equal to the recovery rate for total waste, and is the primary reason that the total recovery rate increased from 31.4% in 2005 to 34.3% today.
- 3. <u>Source reduction continues to play a significant role in the effort to reduce material</u> <u>usage and waste, even given the large amount of light weighting which occurred in the</u> <u>1970s.</u> For reference, the EPA estimated that between 1972 and 1992, soft drink containers were reduced in weight by 36% for one-way glass bottles, 32% for steel cans, 22% for aluminum cans, and 18% for PETE bottles. As shown in Table 5, the trend in many categories continues today.
- 4. <u>Larger product/packaging sizes are significantly more efficient than their smaller</u> <u>counterparts, regardless of material type</u>. The examples in Table 6 highlight how much more efficient large sizes can be than their smaller counterparts, regardless of the material selected. Again, this finding is consistent with previous studies.
- 5. <u>In general, product packaging is more efficient for food products that require more preparation by consumers</u>. Products to which water is added at the point of use, such as dessert mixes and concentrated juice, are significantly more efficient from a packaging perspective than their ready-to-serve counterparts. The same is true for products such as popcorn, cookies, salad dressing, soup, macaroni, and sports drinks.

Table 7 shows the significant reduction in discards when purchasing dry mixes, powders, and concentrates, rather than products in fully constituted form. Not only is there less packaging, but there is also less water to transport, reducing energy usage and greenhouse gas emissions.

D. CONCLUSIONS

1. <u>Reducing packaging weight continues to offer significant opportunities to minimize net</u> <u>discards, and thus conserve both materials and energy, resulting in lower emission of</u> <u>greenhouse gases and other pollutants</u>. This is true for all materials and packaging types, regardless of the material(s) chosen. 2. <u>The product-to-package weight ratio remains an excellent indicator when trying to</u> <u>make top-line decisions about packaging efficiencies</u>. As an initial measure, this ratio provides a powerful and easy-to-understand metric.

However, it must be noted that packaging efficiency is only part of the overall sustainability equation. For example, a less efficient package that does a better job of reducing food waste, improving chances for reducing caloric intake, or eliminating the need of ancillary product use (e.g., disposal spoons or straws) may actually be a better option than a more efficient container.

- 3. <u>As concluded in 1995 and again in 2007, consumer goods marketers and retailers</u> <u>should be encouraged to develop and promote flexible plastic and refillable packaging,</u> <u>concentrates, dry mixes, and larger sizes for appropriate applications</u>. While flexible plastic packaging can cost more to produce, the savings in transportation energy generated across the supply chain can be used to offset this increase.
- 4. <u>As stated in 2007, consumer goods marketers, retailers, and material producers should coordinate efforts to increase recycling of packaging used in out-of-home applications.</u> This is especially true for smaller size beverages such as water, soft drinks, and juices. PETE, HDPE, steel, and aluminum have both the value and infrastructure in place to effectively reduce the use and impact of virgin materials. Consumers need to be motivated to either bring these packages home for placement in their recycling bins, or provided with easy-to-find, out-of-home, recycling collection sites.</u>
- 5. <u>Ultimately, packaging decisions are driven by consumer perceptions and lifestyle</u> <u>requirements. In many cases, these factors lead to more packaging, rather than less.</u> Two examples come to mind:
 - a. We Tend to Equate Quality with Quantity

A 500ml bottle of store brand water weighs 8.8 grams and has a retail price of \$0.13. A 500ml bottle of a typical "performance brand" weighs 27.3 grams and retails for \$1.19. While the latter's heavier weight and higher price may increase quality perceptions among users, they generate greater environmental and economic costs for society.

b. We Strive to Achieve Active, Healthy Lifestyles

This state of mind leads to the demand for packaging to deliver convenience, ease of use, and portion control. Resulting packaging responses generally lead to inefficiencies, as they require smaller sizes or the increased functionality needed to deliver ready-to-eat, ready-to-serve, and out-of-home product solutions. (Example: Single serve yogurt containers, in multi-packs, with a paperboard outer wrap, versus one large tub of the equivalent amount of product.)

I. INTRODUCTION

A. Background

In <u>1995</u> and <u>2007</u>, we published studies on packaging efficiency indicating that one of the best ways to improve both the environmental and economic efficiencies of typical consumer packaged goods was to practice source reduction -- focusing on delivering more product with the same or lesser amount of packaging.

These studies mirror the U.S. Environmental Protection Agency's waste management hierarchy, which lists source reduction as the most preferred waste reduction strategy, followed by recycling, composting and energy recovery:



Waste Management Hierarchy

Source: EPA (http://www.epa.gov/waste/nonhaz/municipal/hierarchy.htm)

Further, we have consistently stated that source reduction needs to take center stage because recycling could apparently not grow fast or large enough to offset increases in waste generation. We even predicted in 1995 that by the year 2000, the amount of material that would be discarded or combusted would be at least the same as it was in 1993 (about 160 million tons) -- even as recycling (defined as material recovered for reuse) increased from a rate of 23% in 1993 to a projected rate of 30% in 2000.

As shown in Table 1, our estimates in 1995 accurately foreshadowed what actually occurred in 2000 and is still continuing today: Even with the significant growth in the overall recovery rate to 34.3% in 2013, annual discards still exceed 160 million tons.

Note: This report and the accompanying research were funded by the American Chemistry Council, which provided the author(s) with full control of the research methodology, findings, conclusions, and observations.

	Our Projection in 199	95* EPA Act	ual Figures**
	2000	2000	2013
Waste Generated	<u>MMT</u> <u>%</u> 230.0 100.0	<u>MMT</u> <u>%</u> 237.6 100.0	<u>MMT</u> <u>%</u> 254.1 100.0
Material Recovered for Recycling	69.0 30.0	69.1 29.1	87.2 34.3
Discards Before Landfilling or Combustion for Ener	161.0 70.0 gy	168.5 70.9	166.9 65.7

Table 1: U.S. Municipal Solid Waste Trends

Along with solid waste management concerns, issues relating to packaging, waste generation, and waste reduction continue to stir significant public, media, local government, and legislative interest. These ongoing concerns relate to a variety of issues:

- 1. Energy and raw material prices have fluctuated widely (and wildly), making the cost of maintaining the typical American lifestyle quite unpredictable. Plus, real income has been relatively stagnant, forcing people to constantly find savings opportunities. (See *Census Bureau: U.S. Poverty, Incomes Stay Stagnant,* U.S. News & World Report, September 16, 2015.)
- 2. Greenhouse gas emissions are now widely believed, with scientific evidence, to contribute to global climate change. Thus, the need to reduce carbon dioxide emissions by reducing energy consumption is generally accepted.
- 3. Reducing the use of fossil fuels continues to be viewed as an economic, political and ecological priority. This concern has helped increase interest in goods made from "renewable resources" such as corn and sugar cane; as well as in materials that can be composted or readily made to biodegrade.
- 4. Decreases over the last year in energy costs, and a slowing Chinese economy, have led to reductions in material costs, driving down recycling operation revenues. This has led to efforts to increase the collection of high-value recyclables such as aluminum, steel, paperboard, and plastics such as PETE and HDPE. (See *Recycling Becomes a Tougher Sell as Oil Prices Drop*, Wall Street Journal, April 5, 2015)

In addition to the above factors, the last 20 years have seen demographic, sociological, and marketplace trends that have led to new types of packaging:

- Smaller households; busier families looking for convenient options; and health concerns driven by the desire for weight loss; have all led to a proliferation of smaller sizes, portion control, and ready-to-serve packaging.
- Flexible plastic packaging continues to grow, as brand owners look to offer source reduced packages that can also reduce product and transportation costs.

Over the last 20 years, there has been some very good news relating to packaging discards. As shown in Table 2, between 1994 and 2012, municipal solid waste grew by 21.5%, in line with household growth. Yet, *the amount of MSW related to containers and packaging grew by only 1%*. This means that the percentage of solid waste due to packaging fell significantly during those 18 years, from 36% to 30%.

Table 2 (MM = Millions):

Population and Municipal Solid Waste (MSW)

	1994	2013	Change
U.S. Population (MM)	261.8	316.5	20.9%
Households (MM)	97.1	122.5	26.2%
Total MSW (mm tons)	209.1	254.1	21.5%
Containers & Packaging: MSW Generated (mm tons) % of Total MSW	75.0 35.9%	75.8 29.8%	1.1%
MSW Recovered (mm tons) % of Containers & Packaging	25.1 33.5%	39.1 51.6%	55.8%
MSW Discarded (mm tons) % of Containers & Packaging	49.9 66.5%	36.7 48.2%	-26.5%
Per Capita MSW Discarded Lbs/Person	381.2	231.9	-39.2%
Lbs/Household	1027.8	599.2	-41.7%

U.S. EPA and Census Bureau Statistics

This is a far different scenario than that projected by the EPA back in 1994. At that time, the agency stated that by 2010, packaging-related waste would grow by 32% (from 75 to 99 million tons) and account for 38% of total MSW. What happened?

First, the 24 million tons of used packaging that was projected by the EPA, but not generated, was primarily due to source reduction. As a related reference, the EPA estimated that between 1972 and 1992, soft drink containers were reduced in weight by 36% for one-way glass bottles, 32% for steel cans, 22% for aluminum cans, and 18% for PET bottles.

Second, there were major gains in container recycling. Between 1994 and 2013, the amount of packaging materials recovered for recycling grew by 55.8%, and the recovery (recycling) rate jumped from 33.5% to 51.6%. This is very significant, since most state bottle bill deposit legislation had already been passed and implemented by 1989.

Thus, the combination of increased source reduction and recycling helped reduce packaging discards by a 26.5%. *On a per capita basis, the reduction was a whopping 39% per person, and almost 42% per household.*

This analysis clearly shows the synergistic value of recycling and source reduction. Thanks to increased recycling activity, the absolute amount of materials recovered increased. In addition, thanks largely to source reduction, the relative amount of those recovered materials also increased, which is why the recycling rate grew significantly: There was a smaller base of generated waste against which to measure the larger amount of recyclables.

Given the strength of this data, and the lack of public awareness regarding it, there is still a strong need to educate a wide variety of audiences about the value of source reduction when making good decisions about efficient packaging. Thus, this study was undertaken as an update to its predecessors, providing a follow-up analysis and trend assessment.

B. Expected Outcomes of This Research

This study has been designed to do the following:

- 1. Provide clear and compelling examples of the value of source reduction as a strategy for developing and evaluating sustainable packaging.
- 2. Identify key characteristics of product/package configurations that add to their overall level of efficiency and sustainability.
- 3. Promote the use of this data as a way to ensure that cradle-to-grave analyses (raw material extraction through final disposal) when examining packaging alternatives, take into account all necessary information.
- 4. Illustrate how packaging decisions reflect consumer needs and expectations, and are not made lightly or "in a vacuum".

C. Methodology

1. Procedure

- a. Fifty-six high volume product categories were chosen from four outlet types: supermarkets (e.g., Kroger, Whole Foods), mass/general merchandise (Walmart, Target), drug/health & beauty aid (Walgreen's, CVS), and "big-box" club stores (Costco, Sam's). The categories and sub-categories are listed on page 10, with data on almost 300 products beginning on page 11. (See Exhibits and Appendices for product/package information and photos.)
- b. Different containers used in each category were weighed after emptying, cleaning, and drying. As an example, the juice category includes containers made from glass; steel; aluminum; plastic or clay (kaolin) coated paperboard; plastic coated foil; and composites of paper, foil and plastic.

Using the stated weight on the package, product weight in grams (28.35 grams/ounce) was also recorded. In the case of most liquids, the weight was based on specific gravity of water, which is 29.57 grams. (For reference, one of the exceptions is table syrup, which weighs about 39.5 grams per ounce.)

Then, the package-to-weight ratio was determined by dividing the weight of the product by the total weight of the product and package, creating a percentage. The closer the product percentage comes to 1.00, the more efficient the package.

- c. To ensure that meaningful disposal and diversion comparisons could be made, alternative products and packages within each category were then converted to equivalent terms or functional unit. For laundry detergents this was 10,000 loads; for juices it was 100 gallons; for most foods it was 1000 pounds of product; and for sweeteners it was 10,000 servings.
- d. Using the EPA's latest recycling (recovery for reuse) figures or the level of postconsumer recycled content as listed on packages, credit was given for use or creation of diverted materials.
- e. The higher of the recycling rate or listed post-consumer recycled content percentage was used. Also, plastic packaging not including "chasing arrows" recycling symbol did not receive recycling or recycled content credit.

The recovery rates, as listed in the EPA's June, 2015 Report, *Advancing Sustainable Materials Management: 2013 Fact Sheet* and *Facts and Figures 2013*:

<u>Material</u>	2013 Recovery Rate
Aluminum, Beverage Cans	55%
Glass, Beer & Soft Drink Bottles	41%
Glass, Other Bottles and Jars	15%
HDPE, Milk and Water Bottles	28%
HDPE, Other Containers	21%
HDPE, Bags, Sacks & Wraps	6%
LDPE, Bags, Sacks & Wraps	21%
Paperboard & Other Packaging*	28%
Composite Carton Packaging**	10%
PETE, Bottles & Jars	31%
PETE, Other Packaging	3%
PP, Other Containers	11%
Steel, Food and Other Cans	71%
Steel, Other Packaging	79%

* Estimated from EPA Data ** Recovery rate provided by the Carton Council

f. The following formula was then applied to determine net discards:

Amount of packaging per equivalent unit MINU of product	Amount diverted by recycling <i>or</i> by use of post-consumer recycled materials (whichever is greater)	=	Amount being landfilled (net discards)
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- g. Net discard quantities for packaging types within categories were compared.
- h. Study methodology, findings, and conclusions were reviewed by Dr. Jennifer Mangold and Rachel Simon of the Laboratory of Manufacturing and Sustainability (LMAS) at the University of California, Berkeley. Using a large sample of packaging that we provided, the LMAS researchers also duplicated a significant number of package weight measurements, confirming their accuracy.
- i. Rick Lingle, Technical Editor of *Packaging Digest*, also reviewed this study and agreed with the findings, conclusions, and recommendations.

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- 2. Discussion Points/Study Limitations
 - a. <u>The study is not intended to provide absolute winners and losers, but rather</u> <u>trends and directional differences between various packaging options</u>. Thus, restraint should be used when tempting to pick "the better package."
 - b. <u>Every attempt was made to develop logical, consistent comparisons</u>. Depending upon the category, delivered value was based on weight, reconstituted liquid, or number of portions. *For this reason, specific comparisons are best made within categories, rather than across them.*
 - c. <u>To minimize effects related to volume, comparisons were made primarily among</u> <u>packaging that contained similar amounts or delivered similar quantities of</u> <u>product</u>. Because larger size containers are generally more efficient than smaller ones in their ability to deliver product, comparisons were generally made within single or multi-serve categories, rather than between them.
 - d. <u>Net discard figures should be considered approximate, and minor differences</u> <u>should not be considered to be significant</u>. Figures listed are for specific products, not for entire categories, so results could vary somewhat between different brands using similar packaging types and materials. *We are most concerned about gross efficiencies, since these present both the most accurate results and the best opportunities for generating improvement.*
 - e. <u>Recycling rates do not necessarily reflect actual conditions, owing to differences</u> <u>arising as to where a product is consumed</u>. In general, the EPA's recycling rates reflect packaging recycling/diversion for products consumed at home. The ability to recycle packaging that is used out-of-home, such as while travelling, is significantly less than for products and packages used at home. *Thus, the recycling rates for single serve juice packages made from steel, aluminum, glass, HDPE, and PETE most likely overstate the diversion rates for these materials when used in out-of-home applications.*
 - f. <u>This study does not take into account the value of energy generated from</u> <u>combustion of discards</u>. While the EPA provides general estimates of how much waste is combusted rather than discarded, there is no indication as to which materials are being combusted.
 - g. <u>This study seeks to determine waste reduction or diversion efficiency. It makes</u> no judgments regarding the tangible or intangible value of different products or <u>materials.</u> The research was designed to highlight packaging that minimizes packaging discards, and cannot be used, in and of itself, to make categorical judgments regarding energy efficiency or total environmental impact.

- h. <u>From a bigger picture perspective, this study does not take into account the</u> <u>relationship between packaging configurations and their ability to reduce</u> <u>product waste ("shrinkage") or other types of waste</u>. For example:
 - 1. Single serve (6 oz.) yogurt containers use more packaging per product than do multi-serve (32 oz.) containers. However, if single serve containers ensure full consumption of the product while slower-than-anticipated use up of yogurt in the large size creates waste through spoilage, the value of food waste reduction must be considered before a full assessment can be made.
 - 2. Single serve yogurt tubes in paperboard boxes may use more packaging than single serve cups. However, the tubes allow for direct consumption, while the cups require a spoon that would either need to be washed or thrown away, if disposable. Again, total life cycle resource use must be factored in before a true comparison can be completed.

Thus, the protective and functional capabilities of a specific package are crucial factors in determining overall economic, environmental, and social performance. *Any conclusions drawn about the overall value of a package would most likely include factors that are beyond the scope of this study.*

3. Terms and Abbreviations Used in This Study

Fiberboard – Uncoated rigid paper, commonly known as "cardboard", or in the recycling community as "old corrugated containers," or OCC.

- Paperboard Paper coated with LDPE or clay (kaolin), usually bleached
- Composite A material made from combinations of paperboard, aluminum foil, and/or LDPE or PVC
- HDPE High density polyethylene PS – Polystyrene EPS – Expanded polystyrene PVC – Polyvinyl chloride

LDPE – Low density polyethylene PETE – Polyethylene terepthalate PP – Polypropylene

II. MAJOR FINDINGS

A. <u>Consistent with the previous studies, the best way to reduce materials going to landfills</u> (net discards) continues to be through the use of lighter weight packaging. In general, bags, pouches, and aseptic packages are significantly lighter and thus more efficient than rigid containers, regardless of the materials used to construct flexible plastic packages, or the much higher recycling rates of the materials used to produce rigid containers. (See Table 3.)

Table 3: Rigid vs. Flexible Plastic Container Comparisons

RIGID VS. FLEXIBLE PLASTIC CONTAINER COMPARISONS

(Based on Normalized Product Usage as Indicated)

Category	Package	Туре	Package Size	Recycling Rate (%)	Net Discards* (Lbs.)
Dish Detergent (1000 Lbs.)	Plastic Pouch HDPE Bottle Paperboard Box	Flexible Rigid Rigid	12.7 oz. 75 oz. 75 oz.	0 21 35**	27.5 38.9 36.9
Pet Food (Dry) (1000 Lbs.)	Plastic Pouch Paperboard Box	Flexible Rigid	24 oz. 24 oz.	0 28	23.1 75.3
Ground Beef (1000 Lbs.)	Plastic Tube Plastic Pouch EPS Tray Paperboard Box	Flexible Flexible Rigid Rigid	16 oz. 16 oz. 16 oz. 32 oz.	0 0 0 28	7.0 12.6 25.1 60.9
Tuna (1000 Lbs.)	Foil/LDPE Pouch Steel Can	Flexible Rigid	5 oz. 5 oz.	0 71	45.1 63.8
Fruit Juice (100 Gallons)	Aseptic Boxes Steel Cans Glass Bottles	Flexible Rigid Rigid	54 Fl. Oz. 36 oz. 40 oz.	10 71 15	40.4 64.9 386.5
Cereal (1000 Lbs.)	Plastic Pouch Paperboard Box Gabletop Carton	Flexible Rigid Rigid	11 oz. 17 oz. 24 oz.	0 35** 10	28.9 131.1 77.1

* Includes lids, liners, spouts, seals, labels, wraps, inner bags, etc. ** List

** Listed post-consumer recycled content

Importantly, the effect of light-weighting (i.e., source reduction) has value long before packages head to the landfill. Lighter weight helps reduce energy consumption during transportation at every step in the supply chain: Trucks or railcars either have weight-reduced cargos, or it takes fewer of them to carry the same amount of product. In either case energy is conserved, greenhouse gases and other pollutants are reduced, and money is saved.

B. <u>While not as significant a factor as source reduction, recycling of primary packaging (defined as recovered material) plays a prominent and growing role in reducing overall discards</u>. This is especially true for steel and aluminum cans, beverage bottles made from PETE, HPDE and glass, and paperboard cartons. As shown in Table 4, these materials are collectively recycled at a 34.2% rate today, up significantly versus 25.7% in 2005. *In fact, the level of primary packaging recycling is now equal to the recovery rate for total waste, and is the primary reason that the total recovery rate increased from 31.4% in 2005 to 34.3% today.*

PRIMARY PACKAGING WASTE GENERATION & RECOVERY (Based on 2013 EPA Data)							
Container Type	Waste Ge (000	enerated Tons)	Waste F (000	Recovered	Reco	overy Rate (%)	
Glass Beverage Bottles	<u>2005</u> 8170	<u>2013</u> 7160	<u>2005</u> 2250	<u>2013</u> 2840	<u>2005</u> 27.5	<u>2013</u> 39.7	
Other Glass Bottles & Jars	2290	2100	340	310	14.8	14.8	
Steel Cans & Other Packaging	2370	2400	1500	1740	63.3	72.5	
Aluminum Cans, Foil & Closures	1930	1800	690	700	35.8	38.9	
Paperboard Packaging	8710	8510	1510	2360	17.3	27.7	
PETE Bottles & Jars	2540	2880	590	900	23.2	31.3	
HDPE Natural Bottles	800	780	230	220	28.8	28.2	
Other Plastic Containers	<u>1420</u>	<u>1830</u>	<u>140</u>	<u>330</u>	<u>9.9</u>	<u>18.0</u>	
Total Primary Packaging	28,230	27,460	7250	9400	25.7	34.2	
Total Waste	253,730	254,110	79,790	87,180	31.4	34.3	
Primary Packaging % of Total Waste	11.1	10.8	9.1	10.8			

Table 4: Primary Packaging Waste Generation & Recovery

C. Even though major weight reductions have occurred in the past, our data shows increases in source reduction continue to play a significant role in the effort to reduce material usage and waste. For reference, the EPA estimated that between 1972 and 1992, soft drink containers were reduced in weight by 36% for one-way glass bottles, 32% for steel cans, 22% for aluminum cans, and 18% for PETE bottles. As shown in Table 5, the trend in many categories continues today.

Table 5: Examples of Source Reduction						
THE VALUE OF SOURCE REDUCTION (Based Upon 1000 Lbs., or 100 Gallons, of Product)						
Package 2007 2015 Reduction (g) (g) (%)						
Kroger Milk, 64 fl. oz. HDPE Jug	47.2	41.5	-12.0			
Applegate Sliced Turkey, 7 oz. Plastic Bag	12.7	9.3	-26.8			
Heinz Ketchup, 64 oz. Plastic Bottle (from PETE to HDPE)	112.1	85.1	-24.1			
Cascade Dishwashing Detergent, 75 oz. Paperboard Box	160.9	120.7	-25.0			
Del Monte Fruit Cocktail, 15.25 oz. in Steel Can	65.1	55.2	-15.2			
Jell-O Pudding, 3.9 oz. Paperboard Box	34.2	26.9	-21.5			
Banquet Frozen Dinner, 12 oz. Paperboard Carton/PETE Tray	58.0	45.3	-21.9			

D. <u>Larger product/packaging sizes are often significantly more efficient than their smaller counterparts, regardless of material type</u>. The examples in Table 6 highlight how much more efficient large sizes can be than their smaller counterparts, regardless of the material selected. (Again, this finding is consistent with previous studies.)

(Based Upon 1000 Lbs., or 100 Gallons, of Product)					
Category	Package	Product/Package Ratio (%)	Net Discards (Lbs.)		
Cream Cheese	8 oz. PP Tub	92/8	76.8		
	12 oz. PP Tub	94/6	59.3		
	16 oz. PP Tub	95/5	52.5		
Milk	64 fl. oz. HDPE Bottle	98/2	14.6		
	128 fl. oz. HDPE Bottle	98/2	10.4		
Cereal	17.0 oz. Paperboard Box	86/14	107.4		
	8.56 oz. – 8 Paperboard Boxes	70/30	298.0		
Baby Food	2.5 oz. Glass Jar	51/49	767.1		
	4.0 oz. Glass Jar	58/42	575.0		
Apple Sauce	24 oz. PETE Jar	92/8	66.6		
	46 oz. PETE Jar	94/6	46.5		
Soup	17.3 oz. Aseptic Carton	96/4	84.5		
	32 fl. oz. Aseptic Carton	96/4	70.2		
Pet Food	3.0 oz. Aluminum Can	90/10	115.3		
	5.5 oz. Aluminum Can	91/9	102.0		

Table 6

E. <u>In general, product packaging is more efficient for food products that require more preparation by consumers</u>. Products to which water is added at the point of use, such as dessert mixes and concentrated juice, are significantly more efficient from a packaging perspective than their ready-to-serve counterparts. The same is true for products such as popcorn, cookies, salad dressing, soup, macaroni, and sports drinks. This efficiency also significantly reduces the impacts of transportation due to reduction in weight and package size.

Table 7 clearly shows the significant reduction in discards when purchasing dry mixes, powders, and concentrates, rather than products in fully constituted form. Not only is there less packaging, but there is also less water to transport, reducing energy usage and greenhouse gas emissions.

Table 7: Convenience and Packaging Efficiency	Table 7:	Convenience	and Pack	aging E	fficiency
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THE VALUE OF DOING IT YOURSELF						
Category	Package	Product Type	Net Discards (Lb.)			
Puddings/Gelatins (4000 Servings)	Gelatin – 6 oz. in Plastic Bag Pudding – 5.9 oz. in Paperboard Box Pudding – 33 oz. – 6 Plastic Snack Cups	Dry Mix Dry Mix Ready to Eat	2.8 18.2 66.1			
Orange Juice (100 Gallons)	Frozen Concentrate – 12 oz. Paper/Metal Can 64 fl. oz. Gable Top Carton	Concentrate Ready to Drink	18.5 26.3			
Popcorn (1000 Lbs.)	32 oz. Bag of Kernels 19.2 oz. – 6 Bags in Paperboard Box	Heat in Oil Microwavable	5.9 255.3			
Cookies (1000 Lbs.)	16.5 oz. Plastic Tube 14.0 oz. Paperboard Box with LDPE/Foil Bag	Dough Ready to Eat	12.3 92.2			
Salad Dressing (4000 Servings)	.6 oz. Foil/LDPE Pouch 16 oz. PETE Bottle 12 oz. – 8 Plastic Cups/Paperboard Box 12 oz. Glass Bottle	Add oil & water Ready to Eat Ready to Eat Ready to Eat	2.4 20.1 41.9 148.5			
Soup (4000 Servings)	26.0 oz. Plastic Bag 10.5 oz. Steel Can 26.0 oz. Aseptic Container 10.75 oz. Single Serve PP Container	Dry Mix Condensed Ready to Eat Ready to Eat	6.2 47.7 72.0 268.6			
Macaroni & Cheese (1000 Servings)	4.4 oz. Composite Pouch 14 oz. Paperboard Box with LDPE/Foil Pouch 32 oz. – 4 PP Cups with Paperboard Sleeve 10 oz. PP Tub with Paperboard Sleeve	Dry Mix Dry Mix Dry Mix Ready to Eat	7.1 12.7 47.3 62.9			
Sports Drinks (4000 Servings)	18.4 oz. HDPE Container 32 fl. oz. PETE Bottle	Dry Mix Ready to Drink	18.0 132.0			

F. <u>The increase in the availability of single serve items points to the complexity of both</u> <u>packaging and sustainable design decisions</u>. As shown in Table 8, packages that deliver consumer benefits such as convenience and portion control generate more discards than do bulk packages. When looked at through the lens of "sustainable packaging", this appears to be a negative result. *However, when a broader perspective on sustainability is applied, the results can be quite different.*

For example:

- Smaller chip, candy, nut, and soda packaging can lead to reductions in sugar, salt, and caloric intake, thus providing weight control, dietary, and nutritional benefits.
- Single serve milk packaging can help reduce food waste by eliminating spillage and overly large portions.

- On-the-go yogurt packaging promotes healthy meals and snacking while it reduces related waste: Squeeze tubes and pouches eliminate the need for disposable spoons or straws.

PORTION CONTROL: MULTIPLE VS. SINGLE SERVING COMPARISON (Based Upon 1000 Lbs. or 100 Gallons of Product)						
Category	Package	Product/Package Ratio (%)	Net Discards (Lb.)			
Snacks/Chips	10.5 oz. LDPE/Foil Bag	97/3	16.9			
	1.25 oz. LDPE/Foil Bag	94/6	62.1			
Candy	4.5 oz. Plastic Wrapper	98/2	23.5			
	11 oz. – 35-0.31 oz. Bars in Plastic Bag	96/4	45.2			
Yogurt	32 oz. PP Container	97/3	30.5			
	6 oz. PP Cup	96/4	40.6			
	16 oz. – 8 LDPE Tubes in Paperboard Box	91/9	89.9			
	16 oz. – 4 Pouches in Paperboard Box	85/15	152.0			
Milk	32 fl. oz. Aseptic Composite Carton	96/4	30.4			
	48 fl. oz. – 6 Aseptic Composite Cartons	95/5	37.4			
Nuts	16 oz. LDPE Bag	98/2	19.5			
	4.34 oz. – 7 Pouches in Paperboard Box	74/26	270.2			
Soft Drinks, Carbonated	2 Liter PETE Bottle 72 fl. oz. – 6-12 fl. oz. Aluminum Cans 60 fl. oz. – 8-7.5 fl. oz. Aluminum Cans 48 fl. oz. – 6-8 fl. oz. Glass Bottles in Paperboard Carrier	98/2 96/4 94/6 57/43	15.2 15.1 23.5 378.2			

Table 8: Packaging Efficiency Based on Serving Size

III. OTHER OBSERVATIONS

- A. <u>Besides beer and wine packaging, glass is increasingly becoming the material of choice</u> <u>for smaller volume products.</u> For example, national ketchup and mayonnaise brands appear to have eliminated glass in favor of PETE and/or HDPE, while more "upscale" brands continue to use glass. (For many people, the EPA listing of higher recycling rates for PETE and HDPE than glass for these types of containers will be counterintuitive.)
- B. Packaging appears to play an increased role in manufacturers' efforts to effectively control costs. Thanks to the unique shape and structural qualities of PETE, packaging can be used to reduce consumer perceptions regarding product size and pricing differences. For example, one national orange juice brand's 59 fl. oz. PETE bottle looks similar in size to a standard half gallon (64 fl. oz.) HDPE container. Also, one brand of water uses a 101.4 fl. oz. PETE bottle that actually creates a larger size impression than the typical 128 fl. oz. (one gallon) HDPE jug.

c. <u>The use of flexible plastic packaging has increased over the last 20 years</u>. Soup, maple syrup, baby food, yogurt, and applesauce are all categories with increased use of flexible plastic packaging. Interestingly, many uses for these types of containers are for products with "green" consumer perceptions in categories such as yogurt, fruit juice, and fresh soup. Thus, the value of source reduction continues to be recognized by all types of retailers, marketers, and manufacturers.

IV. CONCLUSIONS

- A. <u>Reducing packaging weight continues to offer significant opportunities to minimize net</u> <u>discards, and thus conserve both materials and energy while reducing the generation of</u> <u>greenhouse gases and other pollutants</u>. This is true for all materials and packaging types, regardless of the material(s) chosen.
- **B.** <u>The product-to-package weight ratio remains an excellent indicator when trying to</u> <u>make top-line decisions about packaging efficiencies</u>. As an initial measure, this ratio provides a powerful and easy-to-understand metric.

However, it must be noted that packaging efficiency is only part of the overall sustainability equation. For example, a less efficient package that does a better job of reducing food waste, improving chances for reducing caloric intake, or eliminating the need of ancillary product use (e.g., disposal spoons or straws) may actually be a better option than a more efficient container.

- C. <u>As concluded in 1995 and again in 2007, consumer goods marketers and retailers should be encouraged to develop and aggressively promote flexible plastic packaging, concentrates, refills, dry mixes, and larger packaging sizes for appropriate applications. While flexible plastic packaging can cost more to produce, the savings in transportation energy generated across the supply chain can be used to offset this increase.</u>
- D. <u>As stated in 2007, consumer goods marketers, retailers, and material producers should coordinate efforts to increase recycling of packaging used in out-of-home applications</u>. This is especially true for smaller size beverages such as water, soft drinks, and juices. PETE, HDPE, steel, and aluminum have both the value and infrastructure in place to effectively reduce the use and impact of virgin materials. Consumers need to be motivated to either bring these packages home for placement in their recycling bins, or provided with easy-to-find, out-of-home, recycling collection sites.</u>

- E. <u>Ultimately, packaging decisions are driven by consumer perceptions and lifestyle</u> <u>requirements. In many cases, these factors lead to more packaging, rather than less.</u> Two examples come to mind:
 - We Tend to Equate Quality with Quantity
 A 500ml bottle of store brand water weighs 8.8 grams and has a retail price of \$0.13.
 A 500ml bottle of a performance brand weighs 27.3 grams and retails for \$1.19.
 While the latter's heavier weight and higher price may increase quality perceptions among users, they generate greater environmental and economic costs for society.
 - 2. We Strive to Achieve Active, Healthy Lifestyles This state of mind leads to the demand for packaging to deliver convenience, ease of use, and portion control. Appropriate packaging responses generally lead to

use, and portion control. Appropriate packaging responses generally lead to inefficiencies, as they require smaller sizes or the increased functionality needed to deliver ready-to-eat, ready-to-serve, and out-of-home product solutions.

Analgesics 17 Applesauce 17 Baby Food 18 Beer 19 Butter 19 19 Candy 20 Cereal Cheese – American & Cheddar 20 Cheese – Cottage 21 21 Cheese - Cream Cheese – Mozzarella 22 22 Coffee Cold Cuts 23 Condiments 24 Cookies 25 Crackers 26 Desserts 27 27 Detergent, Dish Detergent, Laundry 28 28 Eggs & Egg Substitutes 29 Fabric Softener 29 Fruit Cocktail 30 Ground Beef Ice Cream 30 Jelly 31 Juice 29 Juice, Orange 33 Macaroni & Cheese 34 Mayonnaise 35 Milk 36 38 Nuts Olive/Salad Oil 38 39 Pasta Pasta Sauce 39 Peanut Butter 40 Pet Food 41 Popcorn 42 Raisins 42 Ready to Eat Meals 43 Rice 44 Salad Dressing 44 Shampoo 45 Snacks 45 Soap 46 Soft Drinks, Carbonated 47 Soft Drinks, Powdered 48 Soft Drinks, Sports 48 49 Soup Spinach 50 Strawberries 51 Sweetener 51 Tabl<u>e Syrup</u> 52 Toothpaste 52 Tuna 53 Water 54 Yogurt 55

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Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
				Grams				Lbs. of Pkg/				l he
Kroger Ibuprofen	1000 Tablets (200 mg each)	HDPE Bottle	320.0	41.0	361.0	89 /	11 -	128.1	0	21	26.9	101.2
	in Plastic Bottle	Plastic/Paper Cap		9.5				29.7	0	0	0.0	29.7
		Composite Seal		0.7				2.2	0	0	0.0	2.2
		Net	320.0	51.2	371.2	86 /	14	160.0		-	26.9	133.1
Kroger Ibuprofen	500 Tablets (200 mg each)	HDPE Bottle	160.0	22.5	182.5	88 /	12	140.6	0	21	29.5	111.1
	in Plastic Bottle	Plastic/Paper Cap		8.8				55.0	0	0	0.0	55.0
		Composite Seal	_	0.7			-	4.4	0	0	0.0	4.4
		Net	160.0	32.0	192.0	83 /	17	200.0			29.5	170.5
Kroger Ibuprofen	250 Tablets (200 mg each)	HDPE Bottle	80.0	19.9	99.9	80 /	20	248.8	0	21	52.2	196.5
	in Plastic Bottle	Plastic/Paper Cap		2.5				31.3	0	0	0.0	31.3
		Composite Seal		0.5				6.3	0	0 _	0.0	6.3
		Net	80.0	22.9	102.9	78 /	22	286.3			52.2	234.0
APPLESAUCE		.										Lbs.
Wacky Apple	24 oz. Glass Jar	Glass Jar	680.4	345.6	1026.0	66 /	34	507.9	0	15	76.2	431.7
	W/Metal Lid	Steel Lid		8.6				12.6	0	79	10.0	2.7
		Paper Label	690 4	255.5	1025.0	66 /	24	1.9	0	0 -	0.0	1.9
		ivet	080.4	555.5	1055.9	007	54	522.5			00.2	430.3
Kroger Simple Truth	24 oz. Plastic Jar	PETE Jar	680.4	50.5	730.9	93 /	7	74.2	0	31	23.0	51.2
	with Plastic Lid	Plastic Lid		9.5				14.0	0	0	0.0	14.0
		Paper Label	600.4	1.0	744 4	02 /	0	1.5	0	0 -	0.0	1.5
		Net	680.4	61.0	741.4	92 /	8	89.7			23.0	66.6
Wacky Apple	16 oz - 4 4 oz Cups		453.6	21.0	474.6	96 /	4	46.3	0	11	51	41.2
	in Paperboard Sleeve	Foil Lids	400.0	3.0	-1-1.0	307	-	6.6	0	0	0.0	66
		Paperboard Sleeve		10.5				23.1	0	28	6.5	16.7
		Net	453.6	34.5	488.1	93 /	7	76.1		-	11.6	64.5
Kroger	46 oz. Plastic Jar	PETE Jar	1304.1	72.5	1376.6	95 /	5	55.6	0	31	17.2	38.4
	w/Plastic Lid	Plastic Lid		9.4				7.2	0	0	0.0	7.2
		Paper Label		1.2				0.9	0	0	0.0	0.9
		Net	1304.1	83.1	1387.2	94 /	6	63.7		-	17.2	46.5
Go-Go Squeeze	12.8 oz 4, 3.2 oz. Pouches	Pouch & Fitment	362.9	17.2	380.1	95 /	5	47.4	0	0	0.0	47.4
	in Paperboard Sleeve	Plastic Caps		5.2				14.3	0	0	0.0	14.3
	-	Paperboard Box		26.0				71.6	0	28	20.1	51.6
		Net	362.9	48.4	411.3	88 /	12	133.4	-	-	20.1	113.3
Go-Go Squeeze	3.2 oz. Pouch	Pouch & Fitment	90.7	4.3	95.0	95 /	5	47.4	0	0	0.0	47.4
		Plastic Cap	_	1.3			_	14.3	0	0	0.0	14.3
		Net	90.7	5.6	96.3	94 /	6	61.7		-	0.0	61.7

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
BABY FOOD				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Gerber Organic Veggies	3.5 oz. Pouch	Pouch & Fitment	99.3	5.2	104.5	95 /	5	52.4	0	0	0.0	52.4
		Plastic Cap		2.6			-	26.2	0	0	0.0	26.2
		Net	99.3	7.8	107.1	93 /	7	78.5			0.0	78.5
Little Ducks Oatmeal	3.75 oz. Pouch	Plastic & Foil Pouch	106.3	8.0	114.3	93 /	7	75.3	0	0	0.0	75.3
Comforts Oatmeal	8.0 oz. Box	Paperboard Box	226.8	38.5	265.3	85 /	15	169.8	0	28	47.5	122.2
		Plastic Overwrap	226.0	2.1	267 4	0E /	15	9.3	0	0 _	0.0	9.3
		Net	220.8	40.6	207.4	80 /	15	179.0			47.5	131.5
Gerber Oatmeal	8 oz. Plastic Container	HDPE Container	226.8	40.3	267.1	85 /	15	177.7	0	21	37.3	140.4
		Plastic Lid		17.3				76.3 1 9	0	0	0.0	76.3 1 9
		Plastic Film Label		0.4 3.0				13.2	0	0	0.0	13.2
		Net	226.8	61.0	287.8	79 /	21	269.0			37.3	231.6
Gerber Lil' Bits Fruit	10 oz - 2 5 0 oz Tubs	Plastic Tubs	283.5	12.6	296 1	96 /	4	44 4	0	0	0.0	44 4
	in Fiberboard Sleeve	Plastic Lids	200.0	7.4	20011		•	26.1	0	0	0.0	26.1
		Composite Seals		1.2				4.2	0	0	0.0	4.2
		Paperboard Sleeve		6.0	040 7		- -	21.2	0	28	5.9	15.2
		Net	283.5	27.2	310.7	91 /	9	95.9			5.9	90.0
Gerber Peaches	8 oz 2. 4 oz Plastic Tubs	Plastic Tubs	226.8	13.7	240.5	94 /	6	60.4	0	0	0.0	60.4
		Plastic Lids		5.6		••••	-	24.7	0	0	0.0	24.7
		Composite Seals		1.4				6.2	0	0	0.0	6.2
		Paperboard Sleeve		5.9	050.4	00 /	10 -	26.0	0	28	7.3	18.7
		Net	220.8	20.0	253.4	90 /	10	117.3			7.3	110.0
Earth First	2.5 oz. Glass Jar	Glass Jar	70.9	64.9	135.8	52 /	48	915.4	0	15	137.3	778.1
	w/Metal Lid	Steel Lid		5.8				81.8	0	79	64.6	17.2
		Paper Label Net	70.9	0.5 71.2	142.1	50 /	50	7.1 1004.2	0	0 -	0.0 201.9	802.3
Beech Nut Classics	2.5 oz. Glass Jar	Glass Jar	70.9	62.0	132.9	53 /	47	874.5	0	15	131.2	743.3
	w/Metal Lid	Steel Lid		6.6				93.1	0	79	73.5	19.5
		Paper Label	70.0	0.3	120.0	E1 /	40 -	4.2	0	0 -	0.0	4.2
		Net	70.9	00.9	139.8	51/	49	971.8			204.7	/0/.1
Beech Nut Classics	4.0 oz. Glass Jar	Glass Jar	113.4	74.5	187.9	60 /	40	657.0	0	15	98.5	558.4
	WIVIETAI LIO	Steel LIO Paper Label		0.1 0.6				53.8 53	0	79 0	42.5 0.0	11.3 5.3
		Net	113,4	81.2	194.6	58 /	42 -	716.0	0	- -	141.0	575.0

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
BEER				Grams				Lbs. of Pkg/ 100 Gallon Liquid				Lbs.
Upslope	72 fl. Oz 6 , 12 oz. Cans	Aluminum Cans	2129.0	77.4	2206.4	96 /	4	30.3	0	55	16.7	13.7
		LDPE Ring Carrier		<u>3.6</u>				1.4	0	0	0.0	<u>1.4</u>
			2129.0	81.0	2210.0	96 /	4	31.7			16.7	15.1
Deschutes Brewery	72 fl. Oz 6 , 12 oz. Bottles	Glass Bottles	2129.0	1368.0	3497.0	61 /	39	536.2	0	41	219.8	316.3
		Paper Labels		10.2				4.0	0	0	0.0	4.0
		Steel Caps		<u>12.6</u>				<u>4.9</u>	0	79	<u>3.9</u>	<u>1.0</u>
		Bottle	2129.0	1390.8	3519.8	60 /	40	545.1			223.7	321.4
		Paperboard Carton		93.6				36.7	0	28	<u>10.3</u>	26.4
		Net	2129.0	1484.4	3613.4	59 /	41	581.8			234.0	347.8
BUTTER				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Simple Truth	16 oz 4 sticks in	Paperboard Box	453.6	14.1	467.7	97 /	3	31.1	0	28	8.7	22.4
	Paperboard Box	Wax Paper Wrappers		5.0				11.0	0	0	0.0	11.0
	·	Net	453.6	19.1	472.7	96 /	4	42.1		-	8.7	33.4
Psst	16 oz. in Wax Paper Wrapper	Wax Paper Wrapper	453.6	3.9	457.5	99 /	1	8.6	0	0	0.0	8.6
Kerry Gold	8 oz. in Foli & Paper Wrapper	Foil & Paper Wrapper	226.8	2.6	229.4	99 /	1	11.5	0	0	0.0	11.5
Challenge	8 oz2, 4 oz. Sticks in	Paperboard Box	226.8	10.6	237.4	96 /	4	46.7	0	28	13.1	33.7
	PaperBoard Box	Foil & Paper Wrappers		2.8				12.3	0	0 -	0.0	12.3
		Net	226.8	13.4	240.2	94 /	6	59.1			13.1	46.0
Kroger	8 oz. Plastic Tub	PP Tub	226.8	15.6	242.4	94 /	6	68.8	0	11	7.6	61.2
Whipped Butter		Plastic Lid		6.4				28.2	0	0	0.0	28.2
		Plastic Seal		0.6				2.6	0	0	0.0	2.6
		Net	226.8	22.6	249.4	91 /	9	99.6		-	7.6	92.1
CANDY												
Kit Kat	4.5 oz. Plastic Wrapper	Plastic Wrapper	127.6	3.0	130.6	98 /	2	23.5	0	0	0.0	23.5
Kit Kat Minis	8 oz Pouch	Plastic Pouch	226.8	70	233.8	97 /	3	30.9	0	0	0.0	30.9
					20010	0. /	C C		Ū	Ū	0.0	0010
Kit Kat Spack Sizo	10.78 oz 22.0.40 oz Poro	Plastic Wrannoro	20E E	5 5	211 4	00 /	2	18.0	0	0	0.0	19.0
NIL NAL SHALK SIZE	(Individually Wrapped)	Plastic Widppers	305.0	6.0	511.1	90 /	2	10.0	0	0	0.0	10.0
	(mulvidually wrapped)	Fiaslic Day	205.0	0.0	0474	00 /		19.0	U	0	0.0	19.0
		Net	305.6	11.5	317.1	96 /	4	37.6			0.0	37.6
Kit Kat Miniatures	11 oz 35, 0.31 oz. Bars	Plastic Wrappers	311.9	8.7	320.6	97 /	3	27.9	0	0	0.0	27.9
	(Individually Wrapped)	Plastic Bag		5.4				17.3	0	0	0.0	17.3
		Net	311.9	14.1	326.0	96 /	4	45.2		-	0.0	45.2

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
CANDY (cont.)				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Kit Kat 6-Pack	9 oz 6, 1.5 oz. Bars	Plastic Wrappers	255.2	4.5	259.7	98 /	2	17.6	0	0	0.0	17.6
		Plastic Overwrap	_	2.0			_	7.8	0	0	0.0	7.8
		Net	255.2	6.5	261.7	98 /	2	25.5		_	0.0	25.5
Kit Kat 8-Pack Snack Size	3.92 oz 849 oz. Bars	Plastic Wrappers	111.0	2.0	113.0	98 /	2	18.0	0	0	0.0	18.0
	0.02 02. 0, 10 02. 20.0	Paper Trav		6.3			-	56.8	0	0	0.0	56.8
		Plastic Overwrap		1.8				16.2	0	0	0.0	16.2
		Net	111.0	10.1	121.1	92 /	8	91.0			0.0	91.0
CEREAL												
Nature Valley Granola	11 oz. Pouch	Plastic Pouch	311.9	9.0	320.9	97 /	3	28.9	0	0	0.0	28.9
Kroger Toasted Oats	28 oz. Plastic Bag/Pouch	Plastic Bag/Pouch	793.8	18.8	812.6	98 /	2	23.7	0	0	0.0	23.7
Sweet Home Granola	24 oz. Gable Top Carton	Paperboard Carton	680.4	58.3	738.7	92 /	8	85.7	0	10	8.6	77.1
Honey Nut Cheerios	17 oz Baperboard Box	Paperboard Box	482.0	83.5	565 5	85 /	15	173.2	35	0	60.6	112.6
Holley Nut Cheenos	with Inner HDPE Bag	Plastic Bag	402.0	80	505.5	007	15	18.5	0	0	00.0	18.5
		Net	482.0	92.4	574.4	84 /	16	191.7	Ū	-	60.6	131.1
Oatmeal Crisp	17 oz. Paperboard Box	Paperboard Box	482.0	67.5	549.5	88 /	12	140.0	35	0	49.0	91.0
	with Inner HDPE Bag	Plastic Bag		7.9				16.4	0	0	0.0	16.4
	ů.	Net	482.0	75.4	557.4	86 /	14	156.4		-	49.0	107.4
Honey Nut Cheerios	1.8 oz. Single Serve Cup	HDPE Cup	51.3	11 0	62.3	82 /	18	214 4	0	21	45.0	169 4
		Plastic Film Lid	0.110	0.9	02.0			17.5	0	0	0.0	17.5
		Net	51.3	11.9	63.2	81 /	19	232.0		-	45.0	186.9
Kellogg's Fun Pack	8.56 oz. Paperboard Boxes	Paperboard Boxes	242.7	81.7	324.4	75 /	25	336.6	35	0	117.8	218.8
	and Bags (8) with	HDPE Bags		17.0				70.0	0	6	4.2	65.8
	Plastic Film Overwrap	LDPE Overwrap		4.1				16.9	0	21	3.5	13.3
		Net	242.7	102.8	345.5	70 /	30	423.6		-	125.6	298.0
Cracker Barrel Cheddar	8 oz Plastic & Foil Wrapper	I DPF/Foil Wrapper	226.8	42	231.0	98 /	2	18.5	0	0	0.0	18.5
			220.0		20110	007	-	10.0	Ū	Ū	0.0	10.0
Cracker Barrel Cheddar	7 oz., Pre-Sliced in Plastic Tub	Plastic Tub & Label	198.5	12.1	210.6	94 /	6	61.0	0	0	0.0	61.0
Cracker Cuts	with Plastic & Foil Lid/Seal	Plastic & Foil Lid/seal	_	1.4			_	7.1	0	0	0.0	7.1
		Net	198.5	13.5	212.0	94 /	6	68.0			0.0	68.0
American, Kraft Deluxe	16 oz 24 Slices in Resealable	LDPE/Foil Bag	453.6	6.9	460.5	99 /	1	15.2	0	0	0.0	15.2
·	Foil Bag	C C										
American Kraft Doluvo	12 oz 16 Slicos in		240.0	2.2	240 E	00 /	1	6 9	0	0	0.0	6 9
American, Mall Deluxe	Plastic/Foil Wrapper	сынслі он міарреі	340.2	2.0	542.5	99 /	1	0.0	U	0	0.0	0.0

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
CHEESE - AMERICAN & C	HEDDAR (cont.)			Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
American, Kraft Singles	12 oz 16 Slices in Plastic Sheets and Plastic Wrapper	Plastic Wrapper Plastic Sheets	340.2	1.4 6.4	341.6	99 /	1	4.1 18.8	0	0 0	0.0 0.0	4.1 18.8
		Net	340.2	7.8	348.0	98 /	2	22.9		-	0.0	22.9
CHEESE - COTTAGE Meadow Gold	16 oz., Plastic Bag	Plastic Bag	453.6	3.1	456.7	99 /	1	6.8	0	0	0.0	6.8
Nordica	24 oz. Plastic Cup	PP Cup PP Lid	680.4	21.3 6.2	701.7	97 /	3	31.3 9.1	0	11 11	3.4 1.0	27.9 8.1
		Plastic Seal Net	680.4	0.7	708.6	96 /	4 -	1.0	0	0	0.0	1.0
Nordica	12 oz. Plastic Cup	PP Cup PP Lid	340.2	12.7 6.2	352.9	96 /	4	37.3 18 2	0	11 11	4.1 2.0	33.2 16.2
		Plastic Seal	340.2	0.7	350.8	95 /	5 -	2.1	0	0	0.0	2.1
		Not	040.2	10.0	000.0	007	0	01.0			0.1	01.0
Knudsen on the Go	16 oz 4, 4 oz. Plastic Cups	PS Cups Plastic/Foil Lids	453.6	22.0	475.6	99 /	1	48.5 1.8	0	0	0.0	48.5 1.8
		Net	453.6	22.8	476.4	95 /	5	50.3	0	•	0.0	50.3
CHEESE - CREAM	8 oz Paperboard Box	Paperboard Box	226.8	78	234 6	97 /	3	34.4	0	28	9.6	24.8
	Foil Pouch	Foil Pouch	226.8	3.3	237.9	95 /	5 -	14.6	0	0	0.0	<u>14.6</u> 39.3
			220.0		201.0	007	Ū	10.0			0.0	00.0
Cream, Philadelphia	8 oz. Plastic Tub	PP Plastic Tub	226.8	11.6	238.4	95 /	5	51.1	0	11	5.6	45.5
		PP Lid Foil Seal		6.1 1.0				26.9 4.4	0 0	0 0	0.0 0.0	26.9 4.4
		Net	226.8	18.7	245.5	92 /	8	82.5		-	5.6	76.8
Cream, Philadelphia	12 oz. Plastic Tub	PP Plastic Tub Plastic Lid	340.2	14.7 6.1	354.9	96 /	4	43.2 17.9	0 0	11 0	4.8 0.0	38.5 17.9
		Foil Seal Net	340.2	1.0 21.8	362.0	94 /	6	2.9 64.1	0	0 _	0.0 4.8	2.9 59.3
Cream, Philadelphia	16 oz. Plastic Tub	PP Plastic Tub Plastic Lid	453.6	18.8 6.1	472.4	96 /	4	41.4 13.4	0 0	11 0	4.6 0.0	36.9 13.4
		Foil Seal Net	453.6	1.0 25.9	479.5	95 /	5 -	2.2 57.1	0	0	0.0	2.2

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
CHEESE - MOZZARELLA				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				l bs
Galbani	8 oz in Plastic Container	PP Plastic Tub	226.8	13.5	240.3	94 /	6	59.5	0	11	65	53.0
		HDPE Lid		8.0		•••	U U	35.3	0	21	7.4	27.9
		Plastic Seal		0.6				2.6	0	0	0.0	2.6
		Plastic Label		1.9				8.4	0	0	0.0	8.4
		Net	226.8	24.0	250.8	90 /	10	105.8		-	14.0	91.9
Galbani	8 oz. in Plastic Pouch	Plastic Pouch	226.8	2.0	228.8	99 /	1	8.8	0	0	0.0	8.8
Galbani	16 oz. in Plastic Pouch	Plastic Pouch	453.6	3.9	457.5	99 /	1	8.6	0	0	0.0	8.6
COFFEE												
Maxwell House	11.5 oz. Paperboard and	Paperboard/Tin Can	326.0	62.2	388.2	84 /	16	190.8	24	0	45.8	145.0
	Tin Can, Plastic Lid			6.5				19.9	0	0	0.0	19.9
		LPDE/Foil Seal	226.0	1.3	206.0	00 /	10 -	4.0	0	0 _	0.0	4.0
		Net	326.0	70.0	396.0	82 /	18	214.7			45.8	108.9
Café Rustala	10 oz Stool Con	Stool Con	202 5	04.2	277.7	75 /	25	222.2	0	71	225.0	06.4
Cale Bustelo	TO 02. Steel Call	Blastic Film Label	203.5	94.Z 1 7	511.1	157	25	6.0	0	71	235.9	90.4
		Plastic Lid		5.6				10.0	0	0	0.0	19.8
		I PDF/Foil Seal		1.8				63	0	0	0.0	63
		Net	283.5	103.3	386.8	73 /	27 -	364.4	Ū	•	235.9	128.5
			200.0								20010	0.0
Maui Coffee Company	16 oz. Bag	LDPE/Foil Bag	453.6	16.0	469.6	97 /	3	35.3	0	0	0.0	35.3
Nescafe Clasico	10.5 oz. Glass Jar	Glass Jar	297.7	597.8	895.5	33 /	67	2008.1	0	15	301.2	1706.9
		Plastic/Paper Lid		22.9				76.9	0	0	0.0	76.9
		LPDE/Foil Seal		0.7				2.4	0	0	0.0	2.4
		Plastic Film Label		3.0				10.1	0	0	0.0	10.1
		Net	297.7	624.4	922.1	32 /	68	2097.4		-	301.2	1796.2
Folger's Instant	12 oz. Plastic Jar	PETE Jar	340.2	52 0	392.2	87 /	13	152 9	0	31	47 4	105 5
		PP Plastic Lid	0.0.2	21.2	002.2	0. /		62.3	0	11	6.9	55.5
		LPDE/Foil Seal		1.4				4.1	0	0	0.0	4.1
		Plastic Film Label		4.3				12.6	0	0	0.0	12.6
		Net	340.2	78.9	419.1	81 /	19	231.9		-	54.2	177.7
Falsada	11.2 or Directio Conjetar		220.4	51.0	070.0	06./	4.4	102.0	0	24	24.0	100.0
rugers	11.3 0Z. Plastic Canister		320.4	51.9 10.4	312.3	80 /	14	102.0	0	21	34.0	128.0
				10.1				31.5 24	0	21	0.0	24.9
		Diastic Film Label		1.0				J. I 3 1	0	0	0.0	3.1
		Net	320.4	64.0	384 4	83 /	17	199.8	0	- -	40.6	159.1
		1101	020.7	01.0	JUT.T	007		100.0				

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
								Lbs. of Pkg/				
COFFEE (cont.)				Grams				1000 Lbs. of Pdct				Lbs.
Starbucks Single Serve	0.9 oz. Single Servings (8)	LPDE/Foil Pouches	26.4	5.9	32.3	82 /	18	223.5	0	0	0.0	223.5
		Paperboard Box		12.3				465.9	0	28	130.5	335.5
		Net	26.4	18.2	44.6	59 /	41	689.4		-	130.5	558.9
Nescafe Single Serve	49 oz Single Servings (7)	Plastic Pouches	14 0	38	17 8	79 /	21	271 4	0	0	0.0	271 4
	Paper Pods in Foil Bag	Paperboard Box		11.6				828.6	0	28	232.0	596.6
	i apor i odo in i on Dag	Net	14.0	15.4	29.4	48 /	52	1100.0			232.0	868.0
					2011	10 /	01					
Kroger Simple Truth K-Cups	4.6 oz. Single Servings (12)	Plastic/Foil Cups	130.0	40.4	170.4	76 /	24	310.8	0	0	0.0	310.8
		Paperboard Box		33.5				257.7	0	28	72.2	185.5
		Net	130.0	73.9	203.9	64 /	36	568.5			72.2	496.3
Nespresso Pods	125g Single Servings (10)	Aluminum/Foil Pods	125.0	23.4	148.4	84 /	16	187.2	0	10	18.7	168.5
		Paperboard Sleeve		9.9				79.2	0	28	22.2	57.0
		Paperboard Box		37.2				297.6	0	28	83.3	214.3
		Net	125.0	70.5	195.5	64 /	36	564.0		-	124.2	439.8
COLD CUTS												
Applegate Natural	7 oz. Plastic Ziploc Bag	Plastic Bag	198.5	8.3	206.8	96 /	4	41.8	0	0	0.0	41.8
Sliced Turkey		Plastic Label		1.0				5.0	0	0	0.0	5.0
		Net	198.5	9.3	207.8	96 /	4	46.9		-	0.0	46.9
Oscar Mever Natural	8 oz. Plastic Trav	Plastic Trav	226.8	18.0	244.8	93 /	7	79.4	0	0	0.0	79.4
Selects, Sliced Turkey		Plastic Lid		8.3				36.6	0	0	0.0	36.6
		Plasti Label		0.9				4.0	0	0	0.0	4.0
			226.8	27.2	254.0	89 /	11	119.9			0.0	119.9
Hormel Sliced Turkey	8 oz. in Pouch with	Paperboard Box	226.8	18.7	245.5	92 /	8	82.5	0	28	23.1	59.4
	Paperboard Box	Plastic Pouch		6.3				27.8	0	0 _	0.0	27.8
		Net	226.8	25.0	251.8	90 /	10	110.2			23.1	87.1
Hilshire Farm Naturals	8 oz. Plastic Tub	Plastic Tub	226.8	19.8	246.6	92 /	8	87.3	0	0	0.0	87.3
Turkey Breast		Plastic Pouch		3.8				16.8	0	0	0.0	16.8
		Plastic Lid		10.7				47.2	0	0	0.0	47.2
		Plastic Label		4.0				17.6	0	0	0.0	17.6
		Net	226.8	38.3	265.1	86 /	14	168.9		-	0.0	168.9

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
CONDIMENTS			(Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Ketchup, Heinz	64 oz. Plastic Bottle	HDPE Bottle	1814.4	84.0 11 1	1898.4	96 /	4	46.3	0	21	9.7	36.6 6.1
		Paper Label		1.8				1.0	0	0	0.0	1.0
		Composite Seal	1814 4	0.2	1011 5	95 /	5 -	0.1	0	0 -	0.0	0.1
		not	1014.4	57.1	1911.9	337	0	00.0			5.1	40.0
Ketchup, Heinz	38 oz. Plastic Bottle	HDPE Bottle	907.2	55.0	962.2	94 /	6	60.6	0	21	12.7	47.9
		Plastic Cap Paper Label		9.7 1.4				10.7 1.5	0 0	0	0.0 0.0	10.7 1.5
		Composite Seal		0.2		<u> </u>		0.2	0	0	0.0	0.2
		Net	907.2	66.3	973.5	937	1	73.1			12.7	60.4
Ketchup, Simple Truth	20 oz. Plastic Bottle	PETE Bottle	567.0	37.4	604.4	94 /	6	66.0	0	31	20.4	45.5
(Organic)		Plastic Cap Paper Label		13.5 1 2				23.8	0	0	0.0	23.8 2 1
		Composite Seal		0.2			_	0.4	0	0	0.0	0.4
		Net	567.0	52.3	619.3	92 /	8	92.2			20.4	71.8
Mustard, Grey Poupon	8 oz. Glass Jar	Glass Jar	226.8	118.9	345.7	66 /	34	524.3	0	15	78.6	445.6
		Steel Lid Plastic Label		7.3 1.0				32.2 4.4	0 0	79 0	25.4 0.0	6.8 4.4
		Plastic Seal		0.3				1.3	0	0	0.0	1.3
		Net	226.8	127.5	354.3	64 /	36	562.2			104.1	458.1
Mustard, Grey Poupon	10 oz. Plastic Bottle	PETE Jar	283.5	21.2	304.7	93 /	7	74.8	0	31	23.2	51.6
		Plastic Cap		5.8 1 5				20.5	0	0	0.0	20.5
		Composite Seal		0.3				1.1	0	0	0.0	1.1
		Net	283.5	28.8	312.3	91 /	9	101.6		-	23.2	78.4
Relish, Vlasic	10 Fl. Oz. Glass Jar	Glass Jar	295.7	168.5	464.2	64 /	36	569.8	0	15	85.5	484.4
		Paper Label		9.3 0.5				1.7	0	0	24.0 0.0	1.7
		Net	295.7	178.3	474.0	62 /	38	603.0		-	110.3	492.7
Relish, Vlasic	9 Fl. Oz. Plastic Bottle	PETE Jar	266.1	22.7	288.8	92 /	8	85.3	0	31	26.4	58.9
		Plastic Cap Paper Label		4.6 1.0				3.8	0	0	0.0	3.8
		Composite Seal	000.4	0.3	004 -	<u> </u>	10 -	1.1	0	0	0.0	1.1
		Net	200.1	∠ŏ.b	294.7	90 /	10	107.5			20.4	81.0

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
COOKIES				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Nestle's Toll House Refrigierated	16.5 oz. Plastic Tube	Plastic Tube Metal Clips	467.8	4.5 6.0	472.3	99 /	1	9.6 12.8	0 0	0 79	0.0 10.1	9.6 2.7
Ready to Bake		Net	467.8	10.5	478.3	98 /	2	22.4	-		10.1	12.3
Nestle's Toll House	16 oz. Paper Tray	Paper Tay	453.6	7.0	460.6	98 /	2	15.4	0	0	0.0	15.4
Retrigierated Ready to Bake		Plastic Overwrap Net	453.6	5.3 12.3	465.9	97 /	3	27.1	0	0 _	0.0	27.1
Oreo Minis	14 oz. Paperboard Box	Paperboard Box	396.9	44.7	441.6	90 /	10	112.6	0	28	31.5	81.1
		LDPE/Foil Bag Net	396.9	4.4 49.1	446.0	89 /	11 -	11.1 123.7	0	0 _	0.0 31.5	<u>11.1</u> 92.2
Oreo Minis	8 oz. Foil Pouch	LDPE/Foil Pouch	226.8	9.4	236.2	96 /	4	41.4	0	0	0.0	41.4
Oreo Family Size	17.9 Oz. Tray with Overwrap	PS Tray	507.5	12.0	519.5	98 /	2	23.6	0	0	0.0	23.6
		Net	507.5	19.9	527.4	96 /	4	39.2	0	<u> </u>	0.0	39.2
Famous Amos Multi-Pak	83 oz 42 Pouches in Paperboard Box	Plastic/Foil Pouches Paperboard Box	2353.0	75.6 327.6	2428.6	97 /	3	32.1 139.2	0 0	0 0	0.0 0.0	32.1 139.2
		Net	2353.0	403.2	2756.2	85 /	15	171.4		-	0.0	171.4
Barbara's Snackimals	2.125 oz. Composite Bag	Composite Pouch	60.2	1.7	61.9	97 /	3	28.2	0	0	0.0	28.2
Animal Crackers	2.125 oz. Paperboard Box	Paperboard Box	60.2	20.3	80.5	75 /	25	337.2	0	28	94.4	242.8
		Net	60.2	22.8	83.0	73 /	27	378.7	0	- -	94.4	284.3
Mini Chips Ahoy!	3.5 oz. Snack Cup	PP Cup Plactic Lid	99.3	11.1	110.4	90 /	10	111.8	0	11	12.3	99.5 45 2
GUFak		LDPE/Foil Seal		4.5 0.4				45.5	0	0	0.0	40.0
		Net	99.3	16.0	115.3	86 /	14	161.1			12.3	148.8
Chips Ahoy!	16.4 oz, 12 Packs	Paperboard Carton	464.9	48.6	513.5	91 /	9	104.5	0	28	29.3	75.3
IVIUITI-PACK		Plastic vvrappers Paper Trays		12.0 28.8				25.8 61.9	0	0 0	0.0 0.0	25.8 61.9
		Plastic Outer Wrap	_	5.3			_	11.4	0	0	0.0	11.4
		Net	464.9	94.7	559.6	83 /	17	203.7		-	29.3	174.4

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
COOKIES (cont.)				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct	_			Lbs.
Archway Windmill	9 oz. Paperboard Box	Paperboard Box	255.2	33.3	288.5	88 /	12	130.5	0	28	36.5	93.9
		PS Tray		8.4				32.9	0	0	0.0	32.9
		Plastic & Foil Liner		4.1		a= /		16.1	<u> </u>	0	0.0	16.1
		Net	255.2	45.8	301.0	85 /	15	179.5			36.5	142.9
Pepperidge Farm Piroutte	13.5 oz Steel Tin	Steel Tin	382.7	117.0	499.7	77 /	23	305.7	0	71	217.1	88.7
		Paper Liners		7.6				19.9	0	0	0.0	19.9
		Foil Pouches		5.6				14.6	0	0	0.0	14.6
		Plastic Seal	2027	1.2	51/1	74 /	26	3.1	<u> </u>	0 .	0.0	3.1
		inet	302.7	131.4	514.1	/4/	20	343.3			217.1	120.3
Pepperidge Farm	7.75 oz. Paper 7 Foil Bag	Paper & Foil Bag	219.7	19.2	238.9	92 /	8	87.4	0	0	0.0	87.4
Nantucket		PETE Trays	210.7	7.5	246 4	°0 /	11 -	34.1	<u> </u>	3	1.0	33.1
		INEL	219.7	20.7	240.4	097		121.5			1.0	120.5
Cheez-Its	22 oz Snack Cup	Composite Cup	62.4	11 0	73.4	85 /	15	176 3	0	0	0.0	176 3
01002-113		I DPF L id	02.4	4 7	75.4	007	15	75.3	0	0	0.0	75.3
		LDPE/Foil Seal		0.8				12.8	0	Õ	0.0	12.8
		Net	62.4	16.5	78.9	79 /	21	264.4		-	0.0	264.4
			050.0	10.0	004.0	00 /		107.0	0	00	17.0	100.0
wheat Thins	9.1 oz. Paperboard Box		258.0	43.3	301.3	86 /	14	167.8	0	28	47.0	120.8
	with inner bag	Net	258.0	46.3	304 3	85 /	15	179.5	. 0		47.7	131.8
		Not	200.0	40.0	004.0	007	10	110.0			47.7	101.0
Goldfish	6.6 oz. Bag	Paper & Foil Bag	187.1	16.5	203.6	92 /	8	88.2	0	0	0.0	88.2
Goldfish	11 oz. Pouch	Plastic & Foil Pouch	311.9	13.4	325.3	96 /	4	43.0	0	0	0.0	43.0
Goldfish	30 oz. Gable Top Carton	Composite Carton	850.0	98.5	948.5	90 /	10	115.9	0	0	0.0	115.9
	·	·										
Goldfish	2 oz. Gable Top Carton	Composite Carton	56.7	15.1	71.8	79 /	21	266.3	0	0	0.0	266.3
0-145-1		Davasha and Travi	055.0	44.0	000.4	05 (4 -	170.0	0	00	40 F	404 7
GUIUIISN Spack Backs	9 02 9, 1 02. Bags	Paperboard Tray	255.2	44.Z	299.4	85 /	15	1/3.2	U	28	48.5	124.7
Shack Packs		Plastic Overwrap		0.Z 11 7				20.4	0	0	0.0	20.4
		riasiic & ruii days Net	255.2	61.1	316.3	81 /	19	239.4	. 0		48.5	190.9
		Net	200.2	01.1	510.5	017	10	200.7			-10.0	100.0
Ritz Crackers	13.7 Oz. Paperboard Box	Paperboard Box	388.4	63.8	452.2	86 /	14	164.3	0	28	46.0	118.3
	4 Stacks	Plastic Wrappers		8.5				21.9	0	0	0.0	21.9
		Net	388.4	72.3	460 7	84 /	16	186.1	-	•	46.0	140.2

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
CRACKERS (cont.)				Grams				Lbs. of Pkg/ 100 Lbs. of Pdct				Lbs.
Ritz Crackers Fresh Stacks	11.8 oz Paperboard Box 8 Small Stacks	Paperboard Box Plastic Wrappers	334.5	56.4 10.8	390.9	86 /	14	168.6 32.3	0 0	28 0	47.2 0.0	121.4 32.3
		Net	334.5	67.2	401.7	83 /	17	200.9		-	47.2	153.7
DESSERTS				Grams				Lbs. of Pkg/ 4000 Servings				l bs
Jell-O Pudding	5.9 oz. in Paperboard Box	Paperboard Box	167.3	13.3	180.6	93 /	7	19.5	0	28	5.5	14.1
(o Servings)		Net	167.3	16.1	183.4	91 /	9	23.7	0	U <u>-</u>	5.5	18.2
Jell-O Pudding	3.9 oz. in Paperboard Box	Paperboard Box	110.6	10.0	120.6	92 /	8	22.0	0	28	6.2	15.9
(4 Servings)		Net	110.6	12.2	122.8	90 /	10	4.9 26.9	0	U <u>-</u>	6.2	20.7
Jello-Pudding	33 oz. 6-5.5 oz. Plastic Cups	Plastic Cups	935.5	27.4	962.9	97 /	3	40.3	0	0	0.0	40.3
(6 Servings)	(Ready to Eat)	Paperboard Sleeve		2.4 21.1			_	3.5 31.0	0	28	0.0 8.7	3.5 22.3
		Net	935.5	50.9	986.4	95 /	5	74.8			8.7	66.1
Jell-O Pudding	13 oz. 4-3.25 oz. Plastic Cups	Plastic Cups	368.8	17.4	386.2	95 /	5	38.4	0	0	0.0	38.4
(4 Servings)	(Ready to Eat)	Paperboard Sleeve		10.0	200.4	<u> </u>		22.0	0	28	6.2	15.9
		Net	368.8	29.6	398.4	937	1	65.3			6.2	59.1
Congelli Gelatin (8 Servings)	6 oz. in Plastic Bag	Plastic Bag	170.1	2.5	172.6	99 /	1	2.8	0	0	0.0	2.8
DETERGENT Dish				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				l bs
Cascade, Powder	75 oz. in Paperboard Box	Paperboard Box	2126.3	120.7	2247.0	95 /	5	56.8	35	0	19.9	36.9
Cascade, Liquid	75 oz. in Plastic Bottle	HDPE Bottle	2126.3	85.7	2212.0	96 /	4	40.3	0	21	8.5	31.8
		Plastic Cap Plastic Spout		1.2				0.6	0	0	0.0	0.6
		Paper Label Net	2126.3	3.0 100.8	2227.1	95 /	5	1.4 47.4	0	0 _	0.0 8.5	1.4 38.9
Cascade, Tablets	12.7 oz. Plastic Pouch	Plastic Pouch	360.0	9.9	369.9	97 /	3	27.5	0	0	0.0	27.5

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
DETERGENT, Laundry				Grams				Lbs. of Pkg/ 10000 Loads				Lbs.
Tide Liquid 32 Loads	50 fl. oz. in Plastic Bottle	HDPE Bottle Plastic Cap Net	1550.0 1550.0	90.4 <u>13.5</u> 103.9	1640.4 1653.9	94 /	6	62.3 <u>9.3</u> 71.6	- 0 0	21 0	13.1 <u>0.0</u> 13.1	49.2 <u>9.3</u> 58.5
Tide Powder 68 Loads	95 oz. Paperboard Box	Papberboard Box	2693.3	181.6	2874.9	94 /	6	58.9	35	0	20.6	38.3
Tide Pods 66 Loads	59 oz. Plastic Container	PETE Container	1672.7	150.1	1822.8	92 /	8	50.1	0	3	1.5	48.6
Tide Pods 32 Loads	27 oz. Flexible Pouch	Flexible Pouch	775.0	16.2	791.2	98 /	2	11.2	0	0	0.0	11.2
Colors Liquid 50 Loads	50 fl. Oz. Flexible Pouch	Flexible Pouch	1550.0	46.7	1596.7	97 /	3	20.6	0	0	0.0	20.6
	TES											
Egg Beaters	16 oz. in Paperboard Carton	LDPE/Paper Carton Plastic Lid Plastic Seal	453.6	23.3 1.6 0.5	476.9	95 /	5	51.4 3.5 1.1	0 0	0 0	0.0 0.0 0.0	51.4 3.5 1 1
		Net	453.6	25.4	479.0	95 /	5	56.0	_ 0	•	0.0	56.0
Egg Beaters	32 oz. in Paperboard Carton	LDPE/Paper Carton Plastic Lid	907.2	34.8 1.6	942.0	96 /	4	38.4 1.8	0 0	0 12	0.0 0.2	38.4 1.6
		Plastic Seal Net	907.2	0.5 36.9	944.1	96 /	4	0.6 40.7	0	0	0.0 0.2	0.6 40.5
Eggland's Best	24 oz. in Plastic Carton	EPS Carton	680.4	16.1	696.5	98 /	2	23.7	0	0	0.0	23.7
Simple Truth	24 oz. in Molded Pulp Carton	Molded Pulp Carton	680.4	64.2	744.6	91 /	9	94.4	35	0	33.0	61.3
Eggland's Best Cage Free	24 oz. in Plastic Carton	PETE Carton Paper Label	680.4	45.1 3.7	725.5	94 /	6	66.3 5.4	0 0	3 0	2.0 0.0	64.3 5.4
-		Net	680.4	48.8	729.2	93 /	7	71.7	-	-	2.0	69.7

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
FABRIC SOFTENER				Grams				Lbs. of Pkg/ 10000 Loads				Lbs.
Downy Liquid	60 Fl. Oz. in Plastic Bottle	HDPE Bottle	1568.3	88.7	1657.0	95 /	5	32.6	0	21	6.8	25.7
60 Loads		Plastic Cap		8.2				3.0	0	0	0.0	3.0
		Paper Labels	4500.0	0.0	4005.0	04.4	<u> </u>	0.0	0	0	0.0	0.0
		Net	1568.3	96.9	1665.2	94 /	6	35.6			6.8	28.8
Downy Liquid Refill 60 Loads	60 Fl. Oz. in Paprbd Carton	I DPE/Paper Carton	1568.3	62 4	1630 7	96 /	4	22.9	0	0	0.0	22.9
				02.1			•		Ũ	Ū	0.0	
Bounce	105 Sheets, Fiberboard Box	Spun Paper	99.6	148.0	247.6	40 /	60	31.1	0	0	0.0	31.1
105 Loads	Spun Paper Sheets	Paperboard Box		35.3				7.4	0	28	2.1	5.3
(Due to impregnation, product weight is only an es	stimate.)	Net	99.6	183.3	282.9	35 /	65	38.5			2.1	36.4
				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
FRUIT COCKTAIL	15 25 oz. Metal Can	Steel Can & Lid	432.3	55.2	487 5	80 /	11	127.7	0	79	100.9	26.8
Der Monte		Paper Label	402.0	2.3	407.0	007		5.3	0 0	0	0.0	5.3
		Net	432.3	57.5	489.8	88 /	12	133.0			100.9	32.1
Del Monte	20 oz. Glass Jar	Glass Jar	567.0	347.0	914.0	62 /	38	612.0	0	15	91.8	520.2
Citrus Salad		Sieel Liu Paper Label		13.0				22.9	0	79	18.1	4.8
		Net	567.0	361.2	928.2	61 /	39	637.0	0		109.9	527.1
Dole Tropical Fruit Salad	23.5 oz. Plastic Jar	PP Jar	666.3	29.2	695.5	96 /	4	43.8	0	11	4.8	39.0
		PP Lid		7.3				11.0	0	11	1.2	9.8
		Plastic Seal		0.5				0.8	0	0	0.0	0.8
		Paper Label		1.0		o= /		1.5	0	0	0.0	1.5
		Net	666.3	38.0	704.3	95 /	5	57.0			6.0	51.0
Kroger Fruit Cocktail	8.75 oz. Metal Can	Steel Can & Lid	248.1	34.9	283.0	88 /	12	140.7	0	79	111.1	29.5
-		Paper Label		1.4				5.6	0	0	0.0	5.6
		Net	248.1	36.3	284.4	87 /	13	146.3		•	111.1	35.2
Simple Truth Fruit Salad	32 oz. Plastic Bag	Plastic Bag	007.2	13.2	020 4	00 /	1	14.6	0	0	0.0	14.6
	52 02. Plastic Day	r lastic bag	907.2	15.2	920.4	557	I	14.0	0	0	0.0	14.0
Del Monte	16 oz 4 Plastic Cups	PP Cups	453.6	20.2	473.8	96 /	4	44.5	0	11	4.9	39.6
Mixed Fruit	in Paperboard Sleeve	Plastic Seals		2.6				5.7	0	0	0.0	5.7
		Paperboard Sleeve	452.0	14.9	401.2	02 (0	32.8	0	28	9.2	23.7
		INEL	400.0	51.1	491.3	92 /	0	oJ. I			14.1	ບອ.ບ
Del Monte	7 oz. Cup	PP Cup	198.5	8.7	207.2	96 /	4	43.8	0	11	4.8	39.0
Fruit Naturals - Single		Plastic Lid	_	0.5				2.5	0	0	0.0	2.5
		Net	198.5	9.2	207.7	96 /	4	46.3			4.8	41.5

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
GROUND BEEF				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Kroger	16 oz. in Plastic Tube	Plastic Film	453.6	3.0	456.6	99 /	1	6.6	0	0	0.0	6.6
		Net	453.6	3.8	457.4	99 /	1 -	8.4	U	79	1.4	7.0
Simple Truth Organic	16 oz. in Plastic Pouch	Plastic Pouch	453.6	5.1	458.7	99 /	1	11.2	0	0	0.0	11.2
		Paper Labels	4536	0.6	459 3	99 /	1 -	1.3	0	0 -	0.0	1.3
		NCt	+00.0	5.7	400.0	557	1	12.0			0.0	12.0
Laura's Beef	16 oz. on Plastic Trav	EPS Trav	453.6	6.7	460.3	99 /	1	14.8	0	0	0.0	14.8
	,	Plastic Wrap	_	4.7				10.4	0	0	0.0	10.4
		Net	453.6	11.4	465.0	98 /	2	25.1			0.0	25.1
		Dava and a soul Dava	0.07.0	50.4	000.0	04.4	0	00.0	0	00	47.4	44.0
Natures Rancher Burgers	32 oz. 8-4 oz. Burgers in Paperboard Box	Paperboard Box Plastic Film Bag	907.2	56.4 6.2	963.6	94 /	6	62.2 6.8	0	28	17.4 0.0	44.8 6.8
		Plastic Slip Sheets		8.4				9.3	Õ	0	0.0	9.3
		Net	907.2	71.0	978.2	93 /	7	78.3		-	17.4	60.9
								Lbs. of Pkg/				
	4.75 st is Describe and Osites	Danasha and Oastan	4055.0	Grams	1710 7	07 /	· -	100 Gallon Liquid	0	00	0.0	Lbs.
PSSI	56 fl. Oz.	Paperboard Carton	1655.9	57.8	1/13.7	977	3	29.1	U	28	8.2	21.0
Breyer's	1.5 qt. in Paperboard Carton	Paperboard Carton	1419.4	30.8	1450.2	98 /	2	18.1	0	28	5.1	13.0
	48 fl. Oz.	Paper & Plastic Lid		14.0				8.2	0	0	0.0	8.2
		Plastic Seal Net	1419.4	1.5	1465 7	97 /	3 -	0.9	0	0 -	0.0	22.1
				1010			•				011	
Talenti Gelato	1 gt. Plastic Jar	PETE Jar	946.2	64.7	1010.9	94 /	6	57.1	0	31	17.7	39.4
	32 fl. Oz.	HDPE Lid		21.1				18.6	0	21	3.9	14.7
		Plastic Seal	046.0	1.1	1000.1	02 /	· -	1.0	0	0 _	0.0	1.0
		Net	946.2	86.9	1033.1	92 /	8	76.6			21.6	55.0
Ben & Jerry's	5 Cup Paperboard Container	Paperboard Carton	118.3	52	123 5	96 /	4	36.7	0	28	10.3	26.4
	4 fl. Oz.	Paper & Plastic Lid		2.5	0.0		•	17.6	0	0	0.0	17.6
		Plastic Seal		0.3				2.1	0	0	0.0	2.1
		Net	118.3	8.0	126.3	94 /	6	56.4			10.3	46.2
Pon & Jorn's	1 Pint Paparboard Container	Paparboard Carton	472.0	12 5	196 7	07 /	2	22.0	0	20	67	17 1
Dell & Jelly S	16 fl. Oz.	Paper & Plastic Lid	413.2	7.7	400.7	311	5	23.0 13.6	0	20 0	0.7	13.6
		Plastic Seal		0.7				1.2	0	0	0.0	1.2
		Net	473.2	21.9	495.1	96 /	4	38.6		-	6.7	32.0

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
				_				Lbs. of Pkg/				
				Grams				1000 Lbs. of Pdct				Lbs.
Welch's	27 oz. Plastic Jar	PETE Jar Plastic & Metal Lid Paper Label	765.5	46.9 11.6 2.2	812.4	94 /	6	61.3 15.2 2.9	0 0 0	31 0 0	19.0 0.0 0.0	42.3 15.2 2.9
		Net	765.5	60.7	826.2	93 /	7	79.3		-	19.0	60.3
Smucker's	32 oz. Glass Jar	Glass Jar Steel Lid	907.2	298.2 9.1	1205.4	75 /	25	328.7 10.0	0 0	15 79	49.3 7.9	279.4 2.1
		Net	907.2	308.3	1215.5	75 /	25	339.8	0	<u> </u>	57.2	282.6
Smucker's	18 oz. Glass Jar	Glass Jar	510.3	226.0	736.3	69 /	31	442.9	0	15	66.4	376.4
		Paper Label Net	510.3	9.2 0.7 235.9	746.2	68 /	32	18.0 1.4 462.3	0	0	0.0 80.7	3.8 <u>1.4</u> 381.6
Smucker's	20 oz. Squeezable Plastic Bottle	Plastic Bottle	567.0	30.0	597.0	95 /	5	52.9 17 1	0	0	0.0	52.9 17 1
		Composite Seal Plastic Film Label		0.5 2.0				0.9 3.5	0	0	0.0 0.0	0.9 3.5
		Net	567.0	42.2	609.2	93 /	7	74.4		-	0.0	74.4
Welch's	18 oz. Squeezable	Plastic Bottle	510.3	29.7	540.0	95 /	6	58.2	0	0	0.0	58.2 10.2
		Composite Seal Paper Label		0.4 0.9				0.8	0	0	0.0 0.0 0.0	0.8
		Net	510.3	36.2	546.5	93 /	7	70.9		-	0.0	70.9
JUICE				Grams				Lbs. of Pkg/ 100 Gallon Liquid				Lbs.
Capri Sun Red Berry	60 fl. oz 10 Pouches	LDPE/Foil Pouch	1774.2	41.5	1815.7		-	19.5	0	0	0.0	19.5
6.0 fl. oz. pouches	in Paperboard Box	Drinking Straw		<u>5.0</u>				<u>2.4</u>	0	0	0.0	2.4
		Pouch	1774.2	46.5	1820.7	97 /	3	21.9	0	20	10.1	21.9
		Paperboard Carton Net	1774.2	<u>91.0</u> 138.1	1912.3	93 /	7	<u>43.1</u> 65.0	U	۷ŏ	<u>12.1</u> 12.1	<u>52.9</u>
Honest Kids Organic Grape 6.75 fl. oz. pouches	54 fl. oz 8 Pouches in Paperboard Box	LDPE/Foil Pouch Drinking Straw	1596.8	34.4 5.6	1631.2			18.0 2.9	0 0	0 0	0.0 0.0	18.0 2.9
· · · · · · · · · · · · · · · · · · ·		Pouch	1596.8	<u>40.0</u>	1636.8	98 /	2	20.9	-	-	10 5	20.9
		Paperboard Box	1596.8	<u>120.1</u> 166.1	1762.9	91 /	9	<u>86.8</u>	U	28	18.5 18.5	<u>47.4</u> 68.3

Category/Product	Package Type	Material Type	Pdct Waht	Pkg Waht	Total Woht	% Pdct	% Pka	Equiv Pkg Comparison	% From Rec. Mat.	% Recvcled	Recycle Credit	Net Discards
			3	5	3		5	he of Dire				
JUICE (cont.)				Grams				100 Gallon Liquid				Lbs.
Apple & Eve Organic Apple	20.25 fl. Oz 3 Juice Boxes	Composite Box	598.8	25.5	624.3		-	35.5	0	10	3.6	32.0
6.75 fl. Oz. Juice Boxes		Plastic Straws		1.2				<u>1.7</u>	0	0	0.0	1.7
		Juice Box	598.8	26.7	625.5	96 /	4	37.2				33.7
		Plastic Shrink Wrap		2.5				<u>3.5</u>	0	0	0.0	3.5
		Net	598.8	29.2	628.0	95 /	5	40.7			3.6	37.1
Apple & Eve Fruitables	54 fl. oz 8 Juice Boxes	Composite Box	1596.8	68.0	1664.8			35.5	0	10	3.6	32.0
6.75 fl. Oz. Juice Boxes	with Paperboard Label	Plastic Straws		3.2				1.7	0	0	0.0	1.7
	and Plastic Shrink Wrap	Juice Box	1596.8	71.2	1668.0	96 /	4	37.2			3.6	33.7
		Paperboard Label		11.0				5.7	0	28	1.6	4.1
		Plastic Shrink Wrap		4.9				2.6	0	0	0.0	2.6
		Net	1596.8	87.1	1683.9	95 /	5	45.5			8.7	40.4
V8 Fusion Fruit & Vegetable	48 fl. Oz 6 Alum Cans	Aluminum Can	1419.4	70.2	1489.6			41.3	0	55	22.7	18.6
8 oz Aluminum Cans	with Plastic Shrink Wrap	Shrink Wrap		6.3				37	0	0	0.0	37
		Net	1419.4	76.5	1495.9	95 /	5	45.0	-	-	22.7	22.3
Treeton Apple	33 FL Oz in 6 Metal Cans	Aluminum Can	975 8	57 6	1033 4			49.3	0	55	27 1	22.2
5.5 fl Oz Aluminum Cans	HDPF Loop Carrier	I DPF Loop Carrier	01010	2.6				22	0	0	0.0	22
		Net	975.8	60.2	1036.0	94 /	6	51.5	Ū	Ũ	27.1	24.4
Dole Pineapple	36 fl Oz - 6 Metal Cans	Steel Can	1064 5	189.6	1254 1			148 6	0	71	105 5	43 1
6 fl. Oz Steel Cans	with Paperboard Carton	Paper I abel		12.6				9.9	0	0	0.0	9.9
	man aponocara canton	Can	1064 5	202.2	1266 7	84 /	16	158.5	•	Ŭ	105.5	53 0
		Paperboard Carton		21.1		0.7		16.5	0	28	4.6	11.9
		Net	1064.5	223.3	1287.8	83 /	17	175.0	Ū		110.2	64.9
Motts Apple Juice	48 fl. Oz 6 Plastic Bottles	PETE Bottle	1419.4	128.4	1547.8	92 /	8	75.5	0	31	23.4	52.1
8 fl. Oz. PETE Bottles	with HDPE Loop Carrier	Plastic Label		3.6				2.1	0	0	0.0	2.1
		Plastic Cap		18.6				10.9	0	0	0.0	10.9
		Bottle	1419.4	150.6	1570.0	90 /	10	88.5			23.4	65.1
		HDPE Loop Carrier		4.0				2.4	0	0	0.0	2.4
		Net	1419.4	154.6	1574.0	90 /	10	90.9			23.4	67.5
Martinelli Apple Juice	40 fl. Oz 4 Glass Bottles	Glass Bottle	1182.8	632.0	1814.8			445.9	0	15	66.9	379.0
10 fl. Oz. Glass Bottles	with Plastic Shrink Wrap	Steel Cap		17.2				12.1	0	79	9.6	2.5
		Bottle	1182.8	649.2	1832.0	65 /	35	458.0			76.5	381.5
		Plastic Shrink Wrap		7.1				5.0	0	0	0.0	5.0
		Net	1182.8	656.3	1839.1	64 /	36	463.0			76.5	386.5
Martinelli Organic Apple Juic	ε 10 fl. Oz. Glass Bottle	Glass Bottle	295.7	158.0	453.7			445.9	0	15	66.9	379.0
10 fl. Oz. Glass Bottle		Paper Label		0.2				0.6	0	0	0.0	0.6
		Steel Cap		4.3				12.1	0	79	9.6	2.5
		Bottle	295.7	162.5	458.2	65 /	35	458.6			76.5	382.1
Martinelli Apple Juice												
10. fl. Oz. Plastic Bottle	10 fl. Oz. PETE Bottle	PETE Bottle	295.7	28.0	323.7			79.0	0	31	24.5	54.5
		Plastic Cap		3.4				<u>9.6</u>	0	0	0.0	<u>9.6</u>
		Bottle	295.7	31.4	327.1	90 /	10	88.6			24.5	64.1

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
								Lbs. of Pkg/				
JUICE (cont.)			440 5	Grams	101.0		-	100 Gallon Liquid	0		40.0	Lbs.
Columbia Gorge Smoothie	15.2 fl. OZ. HDPE Bottle	HDPE Bottle	449.5	32.4	481.9			60.2	0	21	12.6	47.5
15.2 fl. Oz. Plastic Bottle		Plastic Label		1.6				3.0	0	0	0.0	3.0
		Plastic Cap		<u>2.7</u>				<u>5.0</u>	0	0	0.0	5.0
		Net	449.5	36.7	486.2	92 /	8	68.1			12.6	55.5
Uncle Matt's Organic OJ	12.0 fl. Oz. PETE Bottle	PETE Bottle	354.4	28.4	382.8			66.8	0	31	20.7	46.1
2 fl. Oz. Plastic Bottle		Сар		3.5				8.2	0	0	0.0	8.2
		Net	354.4	31.9	386.3	92 /	8	75.0			20.7	54.3
Capri Sun Juice	11.2 fl. Oz. Pouch	Pouch	331.2	8.1	339.3			20.4	0	0	0.0	20.4
11.2 fl. Oz. Pouch		Сар		2.6				6.6	0	0	0.0	6.6
		Net	331.2	10.7	341.9	97 /	3	27.0			0.0	27.0
Gerber Apple Prune Juice	16 fl Oz - 4 4 fl Oz Plastic	Plastic Bottles	473 1	68.4	541.5	87 /	13	120.6	0	0	0.0	120.6
4 fl Oz Plastic Bottles	Bottles	Plastic Lids/Seals	110.1	16.6	011.0	017	10	29.3	õ	0	0.0	29.3
	Bottioo	Paper I abels		2.0				3.5	õ	0	0.0	3.5
		Bottle	473 1	87.0	560 1	84 /	16	153.4	0	0	0.0	153 4
		Paperboard Sleeve	475.1	14 7	500.1	0-7	10	25.0	0	0	0.0	25.0
		Not	472.1	101.7	571 9	02/	10	20.9	0	0	0.0	<u>23.9</u> 170 4
		ivel	473.1	101.7	574.0	02 /	10	179.4			0.0	179.4

							Lbs. of Pkg/					
JUICE, ORANGE				Grams			100 Gallon Liquid				Lbs.	
Kroger	128 Fl. Oz. (1 Gal.)	HDPE Bottle	3968.0	60.5	4028.5	98 / 2	13.3	0	21	2.8	10.5	•
	Plastic Bottle	Plastic Cap & Seal		2.6			0.6	0	0	0.0	0.6	
		LDPE/Paper Label		0.6			0.1	0	0	0.0	0.1	
		Net	3968.0	63.7	4031.7	98 / 2	14.0			2.8	11.2	
Minute Maid	128 Fl. Oz. (1 Gal.)	Plastic Bottle	3968.0	132.0	4100.0	97 / 3	29.1	0	0	0.0	29.1	
	Plastic Bottle	Plastic Cap & Seal		4.0			0.9	0	0	0.0	0.9	
		LDPE/Paper Label		1.4			0.3	0	0	0.0	0.3	
		Net	3968.0	137.4	4105.4	97 / 3	30.3			0.0	30.3	
и.			4004.0		0005.0	<u> </u>	40.0	0	0.1			
Kroger	64 FI. UZ. (1/2 Gal.)	HDPE Bottle	1984.0	41.6	2025.6	98/2	18.3	0	21	3.9	14.5	
	Plastic Bottle	Plastic Cap		2.6			1.1	0	0	0.0	1.1	
		LDPE/Paper Labels	4004.0-	0.6		<u> </u>	0.3	0	0	0.0	0.3	•
		Net	1984.0	44.8	2028.8	98/2	19.8			3.9	15.9	
365 Organic	64 Fl. Oz. (1/2 Gal.)	Paper & LDPE Carton	1987.7	63.2	2050.9	97 / 3	27.9	0	10	2.8	25.1	
	Gable Top Carton	Plastic Lid		1.7			0.7	0	0	0.0	0.7	
		Plastic Fitment	_	1.0			0.4	0	0	0.0	0.4	
		Net	1987.7	65.9	2053.6	97/3	29.1			2.8	26.3	

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
JUICE, ORANGE (cont.)				Grams				Lbs. of Pkg/ 100 Gallon Liquid				Lbs.
Simply Juice	59 Fl. Oz. (1.75Liter)	PETE Bottle	1829.0	63.2	1892.2	97 /	3	30.2	0	31	9.4	20.9
	Plastic Bottle	Plastic Cap		12.2				5.8	0	0	0.0	5.8
		Plastic Labels		1.2				0.6	0	0	0.0	0.6
		Composite Seals	_	0.5			_	0.2	0	0	0.0	0.2
		Net	1829.0	77.1	1906.1	96 /	4	36.9			9.4	27.5
Kroger	12 oz. Fiberbd/Metal Can	Paper/Metal Can	1488.0	30.6	1518.6	98 /	2	18.0	0	0	0.0	18.0
Frozen Concentrate	BASED ON 48 OZ.	Plastic Ring Opener		0.8			_	0.5	0	0	0.0	0.5
	RECONSTITUTED VALUE	Net	1488.0	31.4	1519.4	98 /	2	18.5	-		0.0	18.5
								the of Dire/				
				Crama				LDS. OF PKg/				l bo
MACARONI & CHEESE	8 5 oz in Paperboard	Paperboard Tray/lid	241.0	Grams	265.4	01 /	۰ -	53.8	. 0	28	15 1	28.7
Ready to Eat - 1 Serving	6.5 02. In Paperboard		241.0	24.4	205.4	917	9	55.6	0	20	15.1	30.7
Banquet Frozen	12 oz. in Plastic Tray	PETE Tray	340.0	20.6	360.6	94 /	6	45.4	0	3	1.4	44.1
Ready to Eat - 1 Serving	with Paperboard Carton	Paperboard Carton		23.8				52.5	0	28	14.7	37.8
		Plastic Seal		0.9			_	2.0	0	0	0.0	2.0
		Net	340.0	45.3	385.3	88 /	12	99.9			16.1	83.8
Hormel Compleats	10 oz. Plastic Tub with	PP Tub	283.5	19.2	302.7	94 /	6	42.3	0	11	4.7	37.7
Ready to Eat - 1 Serving	Paperboard Sleeve	Paperboard Sleeve		13.0				28.7	0	28	8.0	20.6
		Plastic Seal		2.1				4.6	0	0	0.0	4.6
		Net	283.5	34.3	317.8	89 /	11	75.6			12.7	62.9
Knorr 2 - 8 oz. Servings	4.4 oz. In Composite Pouch (16 oz. prepared)	Composite Pouch	453.6	6.4	460.0	99 /	1	7.1	0	0	0.0	7.1
Kraft Deluxe	14 oz. Paperboard Box	Paperboard Box	907.2	28.0	935.2	97 /	3	15.4	0	28	4.3	11.1
4 - 8 oz. Servings	with Pouch	LDPE/Foil Pouch		2.8				1.5	0	0	0.0	1.5
C C	(32 oz. prepared)	Net	907.2	30.8	938.0	97 /	3	17.0			0.0	12.7
Annie's Creamy Deluxe	11 oz. Paperboard Box	Paperboard Box	680.4	31.5	711.9	96 /	4	23.1	0	28	6.5	16.7
3 - 8 oz. Servings	with Pouch	LDPE/Foil Pouch		3.6				2.6	0	0	0.0	2.6
-	(24 oz. Prepared)	Net	680.4	35.1	715.5	95 /	5	25.8			0.0	19.3
Annie's	6 oz. Paperboard Box	Paperboard Box	567.0	22.1	589.1	96 /	4	19.5	0	28	5.5	14.0
2.5 - 8 oz. Servings	with Pouch	LDPE/Foil Pouch	_	2.3			_	2.0	0	0	0.0	2.0
	(20 oz. Prepared)	Net	567.0	24.4	591.4	96 /	4	21.5			0.0	16.1

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
MACARONI & CHEESE (co	ont.)			Grams				Lbs. of Pkg/ 1000 Servings				Lbs.
Annie's Multi-Pack	10.7 oz. in Paperboard Box	Paperboard Box	1134.0	52.8	1186.8	96 /	4 -	23.3	0	28	6.5	16.8
5 - 8 oz. Servings	with Bags & Pouches	Composite Pouches		13.5				6.0	0	0	0.0	6.0
	(40 oz. Prepared)	Plastic Bags	4404.0	6.5	4000.0	04.4	· -	2.9	0	0	0.0	2.9
		Net	1134.0	72.8	1206.8	94 /	6	32.1			6.5	25.6
Annie's	2.01 oz. in Plastic Cup	PP Cup	453.6	9.5	463.1	98 /	2	20.9	0	11	2.3	18.6
1 - 8 oz. Serving	(8 oz. Prepared)	Paper Label		4.3				9.5	0	0	0.0	9.5
Single Serving Pack		Composite Bag		2.1				4.6	0	0	0.0	4.6
		Met	453.6	16.5	470 1	96 /	4 -	36.4	0	- U	2.3	34.1
		Not	400.0	10.0	470.1	007	-	00.4			2.0	04.1
Annie's Multi-Pack	8.04 oz. in Plastic Cups	PP Cups	907.2	38.0	945.2	96 /	4	20.9	0	11	2.3	18.6
4 - 8 oz. Servings	(32 oz. Prepared)	Plastic Labels		17.2				9.5	0	0	0.0	9.5
Single Serving Packs		Composite Bags		8.4 2.4				4.6	0	0	0.0	4.0
		Sub-Total	907.2	66.0	973.2	93 /	7 -	36.4	Ū	-	2.3	34.1
		Paperboard Sleeve		33.3				18.4	0	28	5.1	13.2
		Net	907.2	99.3	1006.5	90 /	10	54.7		-	7.4	47.3
Kraft Multi-Pack	8.2 oz. in Plastic Cuns	PP Curs	907.2	47.6	954.8	95 /	5	26.2	0	11	29	23.3
4 - 8 oz Servings	(32 oz Prepared)	Plastic Labels	007.2	5.2	004.0	007	0	20.2	0	0	0.0	20.0
Single Serving Packs	(52 52.1 100/0100)	Composite Bags		4.0				2.3	0	0	0.0	2.5
Single Gerving Facks		Plastic Lide		7.0 2.4				13	0	0	0.0	13
		Sub-Total	907.2	59.2	966.4	Q4 /	6 -	32.6	0	- -	2.0	29.7
		Paperboard Sleeve	307.2	20.3	300.4	547	0	11.2	0	28	2.0	8 1
		Net	907.2	79.5	986.7	92 /	8	43.8	Ū	20	6.0	37.8
				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
MAYONNAISE			700 7	054.0	4000.0	0 7 /	~~	100.1	•	45	74.0	404.0
Hollywood	24 fl. Oz. Glass Jar	Glass Jar Diastia & Danar Lid	709.7	354.2	1063.9	67 /	33	499.1	0	15	74.9	424.2
		Plastic Seal		9.2				0.6	0	0	0.0	0.6
		Paper Label		1.2				1.7	Õ	0	0.0	1.7
		Net	709.7	365.0	1074.7	66 /	34	514.3		-	74.9	439.4
Hellman's	30 fl Oz Plastic Jar	DETE lar	887 0	13.3	030 5	95 /	5	48 8	0	31	15 1	33.7
	JU II. UZ. FIASUL JAI	Plastic/Paper Can	007.2	43.3 11 0	950.5	907	5	40.0	0	0	0.0	12 4
		Plastic/Paper Seal		0.4				0.5	Ő	õ	0.0	0.5
		Paper Label		2.0				2.3	0	0	0.0	2.3
		Net	887.2	56.7	943.9	94 /	6	63.9		-	15.1	48.8

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
								Lbs. of Pkg/				
MAYONNAISE (cont.)				Grams				1000 Lbs. of Pdct			10 -	Lbs.
Miracle Whip	22 fl. Oz Squeeze Bottle	PETE Bottle	650.5	38.8	689.3	94 /	6	59.6	0	31	18.5	41.2
		Plastic Cap		11.Z				17.2	0	0	0.0	17.2
		Paner Labels		1.6				2.5	0	0	0.0	2.5
		Net	650.5	51.9	702 4	93 /	7 -	79.8	0	•	18.5	61.3
		Not	000.0	01.0	102.4	007	,	10.0			10.0	01.0
Best Foods	20 fl. Oz. Squeeze Bottle	PETE Bottle	591.4	35.0	626.4	94 /	6	59.2	0	31	18.3	40.8
		Plastic Cap		10.8				18.3	0	0	0.0	18.3
		Composite Seal		0.2				0.3	0	0	0.0	0.3
		Plastic Label	_	2.6				4.4	0	0	0.0	4.4
		Net	591.4	48.6	640.0	92 /	8	82.2			18.3	63.8
Miracle Whin	12 fl. Oz. Squeeze Bottle	DETE Bottle	354.8	24.0	680 3	04 /	6	67.6	0	31	21.0	46.7
	12 II. Oz. Squeeze Bollie		554.0	24.0	009.5	94 /	0	07.0	0	51	21.0	40.7
				4.9				13.8	0	0	0.0	13.8
		Composite Seal		0.3				0.8	0	0	0.0	0.8
		Paper Labels	-	0.9			-	2.5	0	0	0.0	2.5
		Net	650.5	30.1	702.4	93 /	7	84.8			21.0	63.9
				0				Lbs. of Pkg/				l ha
MILK Harizon Organia			2795.0	Grams	2015 5	00 /	- -		0	20	27	LDS.
Holizon Organic	Plastic Bottle	Plastic Can/Closure	5765.0	2.6	3045.5	90 /	2	0.6	0	20	0.0	9.0
		Paper Labels		2.0				0.0	0	0	0.0	0.0
		Net	3785.0	64.2	3849.2	98 /	2 -	14.2	Ũ	•	3.7	10.4
Kroger	64 Fl. Oz. (1/2 Gallon)	HDPE Bottle	1892.5	41.5	1934.0	98 /	2	18.3	0	28	5.1	13.2
	Plastic Bottle	Paper Label		2.6			-	1.1	0	0	0.0	1.1
		Paper Label		0.6				0.3	0	0	0.0	0.3
		Net	1892.5	44.7	1937.2	98 /	2	19.7			5.1	14.6
			1000 5	<u> </u>	4054.0	07 /	•	07 5	0	10	0.7	04 7
Horizon Organic	64 FI. UZ. (1/2 Gallon) Cable Ten Panerboard Carton	LDPE/Paper Carton	1892.5	62.3 2.4	1954.8	977	3	27.5	0	10	2.7	24.7
	Gable top Paperboard Carton	Plastic Seal Not	1802 5	65.7	1058.2	97 /	3 -	29.0	0		2.7	26.2
		INCL	1092.0	05.7	1930.2	51 1	5	29.0			2.1	20.2
Longmont Farms	64 Fl. Oz. (1/2 Gallon)	Glass Bottle	1892.5	886.5	2779.0	68 /	32	390.9	0	80	312.7	78.2
(Recycling estimate based	Refillable Glass Bottle	Plastic Cap		4.2				1.9	0	0	0.0	1.9
on 90% return rate and		Plastic Seal	_	1.0			-	0.4	0	0	0.0	0.4
10% breakage/nonuse.)		Net	1892.5	891.7	2784.2	68 /	32	393.2			312.7	80.5
Fairlife	52 Fl. Oz. in PFTF Bottle	PETE Bottle	1537 6	51.8	1589 4	97 /	3	28 1	0	31	8.7	19 4
		Plastic Closure	1001.0	3.8	1000.4	517	5	2.1	0	0	0.0	2.1
		Film Label		3.7				2.0	0	0	0.0	2.0
		Net	1537.6	59.3	1596.9	96 /	4	32.2		-	8.7	23.5

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
MILK (cont.)				Grams				Lbs. of Pkg/ 100 Gallon Liguid				Lbs.
Meadow Gold	32 Fl. Oz. (1 Quart)	PETE Bottle	946.2	31.8	978.0	97 /	3	28.0	0	31	8.7	19.3
	Plastic Bottle	Plastic Closure		2.1				1.9	0	0	0.0	1.9
		Film Label	_	0.7			_	0.6	0	0	0.0	0.6
		Net	946.2	34.6	980.8	96 /	4	30.5			8.7	21.8
Horizon Organic	32 Fl. Oz. (1 Quart) Gabletop Paperboard Carton	LDPE/Paper Carton	946.2	32.1	978.3	97 /	3	28.3	0	10	2.8	25.5
Horizon Aseptic	32 Fl. Oz. (1 Quart)	Composite Carton	946.2	35.0	981.2	96 /	4	30.9	0	10	3.1	27.8
Shelf Stable	Composite Carton	Plastic Cap & Fitment		2.5				2.2	0	0	0.0	2.2
		Plastic & Foil Seal		0.5				0.4	0	0	0.0	0.4
		Net	946.2	38.0	984.2	96 /	4	33.5		-	3.1	30.4
Longmont Farms	32 Fl. Oz. (1 Quart)	Glass Bottle	946.2	505.1	1451.3	65 /	35	445.4	0	80	356.3	89.1
(Recycling estimate based	Refillable Glass Bottle	Plastic Cap		4.2				3.7	0	0	0.0	3.7
on 90% return rate and		Plastic Seal	_	1.0			_	0.9	0	0	0.0	0.9
10% breakage/nonuse.)		Net	946.2	510.3	1456.5	65 /	35	450.0			356.3	93.7
Mountain Dairy	16 Fl. Oz. (1 Pint)	PETE Bottle	473.1	20.2	493.3	96 /	4	35.6	0	31	11.0	24.6
	Plastic Bottle	Plastic Closure		3.3				5.8	0	0	0.0	5.8
		Plastic Film Label	470.4	2.6	400.0	05 (4.6	0	0 _	0.0	4.6
		Net	473.1	26.1	499.2	95 /	5	46.0			11.0	35.0
Fairlife	11.5 Fl. Oz. Plastic Bottle	Plastic Bottle	1892.5	22.3	1914.8	99 /	1	54.7	0	0	0.0	54.7
		Plastic Cap		3.7				9.1	0	0	0.0	9.1
		Film Label	_	1.6			_	3.9	0	0	0.0	3.9
		Net	1892.5	27.6	1920.1	99 /	1	67.7			0.0	67.7
Meadow Gold	10 Fl. Oz. Plastic Bottle	PETE Bottle	295.7	21.2	316.9	93 /	7	59.8	0	31	18.5	41.3
TruMoo Chocolate		Plastic Closure		2.2				6.2	0	0	0.0	6.2
		Plastic Film Label		0.2			_	0.6	0	0	0.0	0.6
		Net	295.7	23.6	319.3	93 /	7	66.6		-	18.5	48.1
Horizon Aseptic	8 FL Oz (1 Cup)	Composite Carton	236.6	10.6	247.2	96 /	4	37.4	0	10	37	33 7
Shelf Stable	Composite Carton	Plastic Straw	20010	0.5				1.8	0	0	0.0	1.8
		Plastic Wrapper		0.1				0.4	0	0	0.0	0.4
		Net	236.6	11.2	247.8	95 /	5	39.5		-	3.7	35.8
Horizon Asentic 6-Pack	48 FL Oz (6-8 FL Oz Packe)	Composite Carton	1419 4	63.6	1483 በ	96 /	4	37.4	0	10	37	33.7
Shelf Stable	Composite Carton	Plastic Straw	1-110.4	3.6	1400.0	307	7	2.1	0	0	0.0	2 1
		Plastic Wrapper		2.8				1.6	õ	0	0.0	1.6
		Net	1419.4	70.0	1489.4	95 /	5	41.2	-	-	3.7	37.4

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
NUTS				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Kroger	16 oz. Plastic Bag	LDPE Bag	453.6	11.2	464.8	98 /	2	24.7	0	21	5.2	19.5
Blue Diamond	16 oz. Plastic Pouch	LDPE/Foil Pouch	453.6	10.6	464.2	98 /	2	23.4	0	0	0.0	23.4
Kroger	16 oz. Plastic Jar	PETE Jar Plastic Lid Composite Seal Paper Label	453.6	39.3 6.1 0.8 1.7	492.9	92 /	8	86.6 13.4 1.8 3.7	0 0 0 0	31 0 0 0	26.9 0.0 0.0 0.0	59.8 13.4 1.8 3.7
		Net	453.6	47.9	501.5	90 /	10	105.6		-	26.9	78.7
Kroger	12 oz. Paperboard and Paperboard & Metal Can	Paper and Metal Can HDPE Lid Foil/LDPE Seal	340.2	50.9 6.3 1.1	391.1	87 /	13	149.6 18.5 3.2	0 0 0	0 21 0	0.0 3.9 0.0	149.6 14.6 3.2
		Net	340.2	58.3	398.5	85 /	15	171.4		-	3.9	167.5
Blue Diamond	6 oz. Paperboard and Metal Can	Steel Can HDPE Lid Foil/LDPE Seal	170.1	37.4 4.0 0.9	207.5	82 /	18	219.9 23.5 5.3	0 0 0	79 21 0	173.7 4.9 0.0	46.2 18.6 5.3
		Paper Label Net	170.1	43.8	213.9	80 /	20	257.5	U	0	178.6	78.9
Emerald	8.5 oz. Plastic Cannister	Plastic Cannister PP Lid Plastic Overwrap	241.0	27.2 7.8 2.1	268.2	90 /	10	112.9 32.4 8.7	0 0 0	0 0 0	0.0 0.0 0.0	112.9 32.4 8.7
		Net	241.0	37.6	278.6	87 /	13	156.0	0	0 -	0.0	156.0
Emerald 7-Pack	4.34 oz. (7-0.62 oz. Bags) Paperboard Box	Plastic & Foil Pouches Paperboard Box	123.0	10.2 32.0	133.2	92 /	8	82.9 260.2	0 0	0 28	0.0 72.8	82.9 187.3
		Net	123.0	42.2	165.2	74 /	26	343.1			72.8	270.2
OLIVE/SALAD OIL Kroger Canola	48 Fl. Oz. Plastic Bottle	PETE Bottle	1360.8	Grams 39.0	1399.8	97 /	3 -	100 Gallon Liquid 22.9	0	31	7.1	Lbs. 15.8
		Plastic Cap/Seal Paper Label	4000.0	4.0 2.8	4 4 9 9 9	o . /		2.4 1.6	0 0	0 0	0.0	2.4 1.6
		Net	1360.8	45.8	1406.6	97/	3	26.9			7.1	19.8
Whole Foods Canola	16.9 Fl. Oz. (500 mL) Plastic Bottle	PETE Bottle Plastic Cap/Seal Paper Label	479.1	48.6 4.0 1.6	527.7	91 /	9	81.1 6.7 2.7	0 0 0	31 0 0	25.2 0.0 0.0	56.0 6.7 2.7
		Net	479.1	54.2	533.3	90 /	10	90.5		-	25.2	65.3

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
OLIVE/SALAD OIL (cont.)				Grams				Lbs. of Pkg/ 100 Gallon Liquid				Lbs.
A L'Olivier	16.9 Fl. Oz. (500 mL)	Steel Can	479.1	82.7	561.8	85 /	15	91.5	0	79	72.3	19.2
	Steel Can	Plastic Cap & Spout		2.5				2.8	0	0	0.0	2.8
		Plastic Label	470.1	1.0	565 3	85 /	15	1.1	0	0 -	0.0	1.1
		NEL	475.1	00.2	505.5	007	15	33.4			72.5	25.1
Badia a Cotibuono	25.5 Fl. Oz. (750 ml)	Glass Bottle	479.1	429.1	908.2	53 /	47	474.8	0	15	71.2	403.6
	Glass Bottle	Plastic Cap		6.2				6.9	0	0	0.0	6.9
		Foll Seal Paper Label		1.1				1.2	0	0	0.0	1.2
		Net	479.1	437.6	916.7	52 /	48	484.3	0	•	71.2	413.0
								Lbs. of Pkg/				
PASTA				Grams				1000 l bs of Pdct				Lbs
Pastificio di Matino	16 oz. Plastic Bag	Plastic Bag	453.6	3.6	457.2	99 /	1	7.9	0	0	0.0	7.9
Barilla	16 oz. Daperboard Boy	Paperboard Box	453.6	20.8	A7A A	96 /	4	45.9	0	28	12.8	33.0
Darma	To be raperboard box	Plastic Window	400.0	1.0	4/4.4	307	4	2.2	0	20	0.0	2.2
		Net	453.6	21.8	475.4	95 /	5	48.1		•	12.8	35.2
Krogor	16 oz. Doporboord Dov	Deperboard Poy	452.6	01.0	47E 4	05 /	F	49.1	0	20	10.2	20.8
Riogei	To uz. Paperboard Box	Paperboard Box Plastic Window	455.0	21.0 10	475.4	957	5	40.1	0	30 0	0.0	29.0
		Net	453.6	22.8	476.4	95 /	5	50.3	Ū	•	18.3	32.0
Buitoni Fresh/Refrigerated	20 oz Elexible Plastic Container	Plastic Tray & Lid	567	22.8	589.8	96 /	4	40.2	0	0	0.0	40.2
Buttonin resinteingerated			307	22.0	009.0	307	-	40.2	0	0	0.0	40.2
PASTA SAUCE		D-T- ·		a a 4		<u> </u>	_					
Ragu	67 oz. Plastic Jar	PETE Jar Blastia Can	1899.5	92.1	1991.6	95 /	5	48.5	0	31	15.0	33.5
		Paper Label		10.5				0.5	0	0	0.0	0.5
		Net	1899.5	103.6	2003.1	95 /	5	54.5	Ũ	•	15.0	39.5
Kroger	43 oz. Glass Jar	Glass Jar	1219.1	469.3	1688.4	72 /	28	385.0	0	15	57.7	327.2
		Steel Lid		12.6				10.3	0	0	0.0	10.3
		Paper Label	.	2.0				1.6	0	0	0.0	1.6
		Net	1219.1	483.9	1703.0	72 /	28	396.9			57.7	339.2
Monte Bene	24 oz. Glass Jar	Glass Jar	680.4	301.4	981.8	69 /	31	443.0	0	15	66.4	376.5
		Steel Lid		8.6				12.6	0	0	0.0	12.6
		Paper Label		2.2			- · · ·	3.2	0	0	0.0	3.2
		Net	680.4	312.2	992.6	69 /	31	458.8			66.4	392.4

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
PASTA SALICE (cont.)				Grame				Lbs. of Pkg/				l be
Simply Balanced	24 oz. Glass Jar	Glass Jar	680.4	365.5	1045.9	65 /	35	537.2	0	15	80.6	456.6
		Steel Lid		14.0				20.6	0	0	0.0	20.6
		Paper Label		1.0				1.5	0	0	0.0	1.5
		Net	680.4	380.5	1060.9	64 /	36	559.2			80.6	478.7
Kroger Private Selection	12 oz. Glass Jar	Glass Jar	340.2	229.0	569.2	60 /	40	673.1	0	15	101.0	572.2
		Steel Lid		8.7				25.6	0	63	16.1	9.5
		Paper Label	240.0	0.9	570.0	50 /	44 -	2.6	0	0 -	0.0	2.6
		Net	340.2	238.0	578.8	597	41	701.4			117.1	584.3
Hunt's	24 oz. Can	Steel Can	680.4	80.3	760.7	89 /	11	118.0	0	79	93.2	24.8
		Paper Label	000.4	3.3	704.0	00 /		4.9	0	0	0.0	4.9
		Net	680.4	83.0	764.0	89 /	11	122.9			93.2	29.6
Progresso	15 oz. Can	Steel Can	425.3	53.9	479.2	89 /	11	126.7	0	79	100.1	26.6
		Paper Label	2.4	2.4				5.6	0	0	0.0	5.6
		Net	425.3	56.3	481.6	88 /	12	132.4			100.1	32.3
Buitoni	15 oz. Plastic Tub	PP Tub	235.3	18.7	254.0	93 /	7	79.5	0	11	8.7	70.7
Refrigerated		Plastic Seal		1.0				4.2	0	0	0.0	4.2
		LDPE LIO Paper Labels		8.4 0.7				35.7	0	0	0.0	35.7
		Net	235.3	28.8	264.1	89 /	11	122.4	Ū	•	8.7	113.7
Simply Organia	1 49 oz Douch	Composite Douch	269.6	2.6	272.2	00 /	1	0.8	0	0	0.0	0.9
(Based on Reconstitution)	(Makes 13 oz. Of Product)	Composite Pouch	300.0	3.0	572.2	997	I	9.0	0	0	0.0	9.0
Simple Truth	16 oz. Plastic Jar	PETE Jar	453.6	30.6	484.2	94 /	6	67.5	0	31	20.9	46.5
		PP Lid		10.2				22.5	0	11	2.5	20.0
		Composite Seal		1.3				2.9	0	0	0.0	2.9
		Paper Label	452.6	0.5	406.2	01 /	o -	1.1	0	0 -	0.0	1.1
		inet	400.0	42.0	490.2	917	9	50.5			23.4	70.5
Crawalkarla			452.0	040 F	604.4		25	520.2	0	45	70 5	450.7
Smuckers	10 02. Glass Jar	Glass Jai Steel Lid	453.6	240.5 12 9	094.1	65 /	30	030.∠ 28.4	0	15 79	79.5 22.5	45U.7 6.0
		Plastic Seal		0.6				1.3	0	0	0.0	1.3
		Paper Labels		1.1				2.4	0	0	0.0	2.4
		Net	453.6	255.1	708.7	64 /	36	562.4		-	102.0	460.4

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
PEANUT BUTTER (cont.)				Grams			_	Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Jif To Go	12 oz. (8-1.5 oz. Cups)	PP Cups	340.2	24.0	364.2	93 /	7	70.5	0	11	7.8	62.8
	п Рарегроаго вох	Poll & Plastic Llus Paperboard Box		3.0 21.8				10.0 64.1	0	0	0.0	10.0 64.1
		Net	340.2	49.4	389.6	87 /	13	145.2		•	7.8	137.4
Justin's	1.15 oz. Pouch	Foil & Plastic Pouch	32.6	1.5	34.1	96 /	4	46.0	0	0	0.0	46.0
PET FOOD												
Multi-Serve												
Dog Food, Miilk Bone	24 oz. Box (dry)	Paperboard Box	680.4	71.2	751.6	91 /	9	104.6	0	28	29.3	75.3
Dog Food, Pet Pride	24 oz. Pouch (dry)	Plastic Pouch	680.4	15.7	696.1	98 /	2	23.1	0	0	0.0	23.1
Purina Beggin' Strips	40 oz. Pouch (dry)	Plastic Pouch	1134.0	33.1	1167.1	97 /	3	29.2	0	0	0.0	29.2
Dog Food, lams	9.3 lbs. Bag (dry)	Paper & LDPE Bag	4218.5	118.3	4336.8	97 /	3	28.0	0	0	0.0	28.0
Dog Food, Pet Pride	5.5 oz. Metal Can	Aluminum Can	155.9	15.2	171.1			97.5	0	0	0.0	97.5
		Paper Label Net	155.9	<u>0.7</u> 15.9	171.8	91 /	9	<u>4.5</u> 102.0	0	0	<u>0.0</u> 0.0	<u>4.5</u> 102.0
Cat Food, Purina Naturals	50.4 oz. Bag (dry)	Paperboard Bag	1428.8	32.5	1461.3	98 /	2	22.7	0	28	6.4	16.4
Dog Food, Fresh Pet	16 oz. in Plastic Tube	LDPE Tube	453.6	5.5	459.1			12.1	0	21	2.5	9.6
Refrigerated		Steel Clips		0.7				<u>1.5</u>	0	0	0.0	<u>1.5</u>
		Net	453.6	6.2	459.8	99 /	1	13.7			2.5	11.1
Dog Food, Fresh Pet	10.25 oz. in Plastic Tub	PP Tub	290.6	16.5	307.1	95 /	5	56.8	0	11	6.2	50.5
Refrigerated		PETE Lid		7.5				25.8	0	3	0.8	25.0
		Plastic Film Seal		1.0	o / = o	~~ <i>i</i>		3.4	0	0	0.0	3.4
		Net	290.6	25.0	315.6	92 /	8	86.0			7.0	79.0
Dog Food, Pet Pride	5.3 oz. Pouch	Foil/LDPE Pouch	150.3	4.0	154.3	97 /	3	26.6	0	0	0.0	26.6
Single Serve												
Cat Food, I Love You	3 oz. Metal Can	Aluminum Can	85.0	9.2	94.2			108.2	0	0	0.0	108.2
		Net	85.0	<u>0.6</u> 9.8	94.8	90 /	10	<u>7.1</u> 115.3	U	U	<u>0.0</u> 0.0	<u>7.1</u> 115.3

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
PET FOOD (cont.) - Single	Serve			Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Cat Food, Nutrish	2.8 oz. Cup	Plastic Cup	79.4	6.0	85.4		_	75.6	0	0	0.0	75.6
		Plastic Lid		0.6				7.6	0	0	0.0	7.6
		Net	79.4	6.6	86.0	92 /	8	83.1			0.0	83.1
Cat Food, Abound	3 oz. Pouch	Foil/LDPE Pouch	85.0	3.4	88.4	96 /	4	40.0	0	0	0.0	40.0
POPCORN												
Jolly Time	32 oz. Bag	LDPE Bag	907.2	6.8	914.0	99 /	1	7.5	0	21	1.6	5.9
Orville Reddenbacher's	30 oz. Plastic Jar	PETE Jar	850.5	38.6	889.1	96 /	4	45.4	0	31	14.1	31.3
				3.5 0.1				4.1	0	0	0.0	4.1
		Poil/LDPE Seal		0.1				0.1	0	0	0.0	0.1
		Not	850.5	44.5	895.0	95 /	5 -	52.3	0	•	14 1	38.3
		NCL	000.0	4.5	035.0	557	5	52.5			17.1	50.5
Pop Secret	19.2 oz 6-3.2 oz. Bags in	Paper/Plastic Bags	544.3	85.2	629.5	86 /	14	156.5	0	0	0.0	156.5
	Paperboard Box	Plastic Wraps		7.2				13.2	0	12	1.6	11.6
		Paperboard Box		47.4				87.1	0	0 _	0.0	87.1
		Net	544.3	139.8	684.1	80 /	20	256.8			1.6	255.3
Pop Secret	9.6 oz 3-3.2 oz. Bags in	Paper/Plastic Bags	272.2	42.6	314.8	86 /	14	156.5	0	0	0.0	156.5
	Paperboard	Plastic Wraps		3.6				13.2	0	0	0.0	13.2
		Paperboard Box	–	28.0				102.9	0	0	0.0	102.9
		Net	272.2	74.2	346.4	79 /	21	272.6			0.0	272.6
Jiffy Pop	4.5 oz. Foil Pan with	Steel Handle	127.6	18.9	146.5	87 /	13	148.1	0	79	117.0	31.1
	Metal Handle, Paper Lid	Foil Tray		12.9				101.1	0	0	0.0	101.1
		Foil Lid		4.2				32.9	0	0	0.0	32.9
		Paper Label	_	10.0			_	78.4	0	0	0.0	78.4
		Net	127.6	46.0	173.6	74 /	26	360.5			117.0	243.5
RAISINS												
Sun Maid	32 oz. Plastic Bag	Plastic Bag	907.2	7.4	914.6	99 /	1	8.2	0	0	0.0	8.2
Kroger	10 oz. Composite Pouch	Composite Pouch	283.5	8.0	291.5	97 /	3	28.2	0	0	0.0	28.2
Kroger	20 oz. Paperboard Box	Paperboard Box	567.0	28.4	595.4	95 /	5	50.1	0	28	14.0	36.1
	with Plastic Lid			6.0				10.6	0	0	0.0	10.6
		Plastic Outer Seal		0.9				1.6	0	U	0.0	1.6
		Plastic Inner Seal	F07 0	0.7	000.0	04 /		1.2	U	0 -	0.0	1.2
		Net	567.0	30.0	603.0	94 /	ю	b3.5			14.0	49.5

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
RAISINS cont.)				Grams			_	Lbs. of Pkg/ 1000 Lbs. of Pdct	_			Lbs.
Sun Maid	12 oz. Paperboard Box	Paperboard Box	340.2	25.7	365.9	93 /	7	75.5	0	28	21.2	54.4
	with Plastic Bag	Plastic Inner Bag	340.2	4.0 29.7	369.9	92 /	8 -	87.3	0	0 -	21.2	66.1
			0.002	_0		027	•	0110				
Sun Maid	6 oz 6, 1 oz. Boxes in Plastic Film Wrap	Paperboard Boxes	170.1	26.4	196.5	87 /	13	155.2	0	28	43.5	111.7
		Net	170.1	27.6	197.7	86 /	14	162.3		•	43.5	118.8
Sun Maid Mini-Snacks	6 oz - 12 0 5 oz Boxes	Paperboard Boxes	170 1	27.6	197 7	86 /	14	162 3	0	28	45 4	116.8
	in Plastic Pouch	Plastic Pouch		4.4	101.1	007		25.9	0 0	0	0.0	25.9
		Net	170.1	32.0	202.1	84 /	16	188.1		-	45.4	142.7
READY TO EAT MEALS	7.5 oz. in Plastic Powl	PP Powl	212.6	10.0	221.6	02 /	0	80.4	0	11	0.9	70.5
Snaghetti & Meathalls	7.5 02. III Plastic Bowi	PP DOWI Plastic Can	212.0	19.0 5.5	231.0	92 /	0	09.4 25.9	0	0	9.8	79.5 25.9
opugnotti u moutouno		Aluminum Lid		4.2				19.8	0	0 0	0.0	19.8
		Plastic Film Label	_	0.8			_	3.8	0	0	0.0	3.8
		Net	212.6	29.5	242.1	88 /	12	138.8		-	9.8	128.9
Chef Boyardee	14.25 oz. in Plastic Bowl	PP Bowl	404.0	32.3	436.3	93 /	7	80.0	0	11	8.8	71.2
Ravioli		Plastic Cap		8.8				21.8	0	0	0.0	21.8
		Aluminum Lid		6.0				14.9	0	0	0.0	14.9
		Net	404.0	48.4	452.4	89 /	11	119.8	0	- -	8.8	111.0
Chef Boyardee	14.5 oz. Metal Can	Steel Can & Lid	111 1	52 7	463.8	80 /	11	128.2	0	71	91.0	37.0
Spaghetti & Meatballs		Paper Label	411.1	21	403.0	097		5 1	0	0	0.0	51
		Net	411.1	54.8	465.9	88 /	12	133.3		-	91.0	42.3
Hormel Compleats	10 oz. Plastic Bowl	PP Bowl	283.5	18.2	301.7	94 /	6	64.2	0	11	7.1	57.1
Spaghetti & Meatballs	Paperboard Sleeve	Plastic Seal		1.8				6.3	0	0	0.0	6.3
		Paperboard Sleeve	_	12.8			_	45.1	0	28	12.6	32.5
		Net	283.5	32.8	316.3	90 /	10	115.7			19.7	96.0
Campbell Spaghetti Micros	6 oz. in Plastic Tub with	PP Tub	170.1	15.9	186.0	91 /	9	93.5	0	11	10.3	83.2
	Paperboard Sleeve	Plastic Seal		1.0 10 e				5.9	0	0	0.0 17 4	5.9
		Paperboard Sleeve Net	170.1	27.5	197.6	86 /	14	161.7	0	28	27.7	133.9
Progresso Chili	20 oz. in Pouch	Plastic & Foil Pouch	567	16.2	583.2	97 /	3	28.6	0	0	0.0	28.6

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
RICE				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Yoga Organic Brown	32 oz. Bag	LDPE Bag	907.2	6.9	914.1	99 /	1	7.6	0	21	1.6	6.0
Uncle Ben's Original	32 oz. Box	Paperboard Box	907.2	39.7	946.9	96 /	4	43.8	0	28	12.3	31.5
Uncle Ben's Instant	28 oz. Box	Paperboard Box	793.8	65.7	859.5	92 /	8	82.8	0	28	23.2	59.6
Uncle Ben's Instant Brown	14 oz. Box w/Inner Bag	Paperboard Box LDPE Inner Bag	399.0	40.0 4.0	439.0	91 /	9	100.3 10.0	0	28 21	28.1 2.1	72.2 7.9
		Net	399.0	44.0	443.0	90 /	10	110.3			30.2	80.1
Uncle Ben's Brown Boil-in-Bag	14 oz. 4-3.5 oz. Bags in Fiberboard Box	Paperboard Box LDPE Inner Bags	399.0	36.8 7.4	435.8	92 /	8	92.2 18.5	0 0	28 21	25.8 3.9	66.4 14.7
, i i i i i i i i i i i i i i i i i i i		Net	399.0	44.2	443.2	90 /	10	110.8		-	29.7	81.1
Minute Rice	8.8 oz 2 4.4 oz Cups in Paperboard Overwrap	PP Cup Plastic Lid	249.5	11.9 <u>1.0</u>	261.4	05 /	-	47.7 <u>4.0</u>	0 0	11 0	5.2 0.0	42.4 <u>4.0</u>
		Cup Paperbd Overwrap Net	249.5 249.5	12.9 <u>18.2</u> 31.1	262.4 280.6	95 / 89 /	5	51.7 <u>72.9</u> 124.6	0	28	<u>20.4</u> 25.7	46.5 <u>52.5</u> 99.0
Uncle Ben's	8.8 oz. Pouch	Plastic Pouch	249.5	7.5	257.0	97 /	3	30.1	0	0	0.0	30.1
SALAD DRESSING				Grams				Lbs. of Pkg/ 4000 Servings				l bs
Brianna's 12 Servings	12 fl. Oz. Glass Bottle	Glass Bottle Plastic Cap Paper Seal	375.6	230.4 3.2 1.0	606.0	62 /	38 -	169.3 2.4 0.7	0 0 0	15 0 0	25.4 0.0 0.0	143.9 2.4 0.7
		Net	375.6	2.0	612.2	61 /	39	1.5 173.9	0	0 _	25.4	148.5
Hidden Valley 16 Servings	16 fl. Oz. Plastic Bottle	PETE Bottle Plastic Cap/Spout Paper Seal Paper Labels	500.8	41.9 5.2 0.9 1.4	542.7	92 /	8	23.1 2.9 0.5 0.8	0 0 0 0	31 0 0 0	7.2 0.0 0.0 0.0	15.9 2.9 0.5 0.8
		Net	500.8	49.4	550.2	91 /	9	27.2		-	7.2	20.1
Hidden Valley Ranch To Go 12 Servings	12 fl. Oz 8 Single 1.5 fl. Oz. Plastic Cups in Paperboard Box	Plastic Cups Plastic Lids Paperboard Box	375.6	28.0 6.4 31.5	403.6	93 /	7	20.6 4.7 23.1	0 0 0	0 0 28	0.0 0.0 6.5	20.6 4.7 16.7
		Net	375.6	65.9	441.5	85 /	15	48.4	•	-	6.5	41.9

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
SALAD DRESSING (cont.)				Grams			_	Lbs. of Pkg/ 4000 Servings				Lbs.
Kroger Salad Magic (Dry)	2.4 oz. 4 Pouches (0.6 oz. ea.)	Composite Pouches	78.4	11.0	89.4	88 /	12	3.0	0	0	0.0	3.0
32 Servings	in Paperboard Box	Paperboard Box	70.4	21.7	444 4	74 /		6.0	0	28	1.7	4.3
	(Reconstituted for 32 servings)	Net	78.4	32.7	111.1	717	29	9.0			1.7	7.3
Good Seasons (Dry) 8 Servings	.6 oz. Pouch (Reconstituted for 8 Servings)	Foil/LDPE Pouch	136.0	2.2	138.2	98 /	2	2.4	0	0	0.0	2.4
SHAMPOO				Grams				Lbs. of Pkg/ 100 Gallon Liquid				l bs
Aussie	13.5 FL Oz in Plastic Bottle	HDPF Bottle	411.8	30.6	442.4	93 /	7 -	64 0	0	21	13.4	50.5
///////////////////////////////////////		Plastic Cap	411.0	7.9	774.7	00 /	'	16.5	õ	0	0.0	16.5
		Plastic Film Label		1.0				2.1	0	0	0.0	2.1
		Net	411.8	39.5	451.3	91 /	9	82.6	ũ	- -	13.4	69.1
	29.2 fl Oz Plastic Bottle	HDPE Bottle	890.6	52 7	943 3	94 /	6	50.9	0	21	10.7	40.2
///////////////////////////////////////	with Pump Dispenser	Plastic Pump Top	000.0	26.8	040.0	047	0	25.9	õ	0	0.0	25.9
		Plastic Film Label		1.4				1.4	0	0	0.0	1.4
		Net	890.6	80.9	971.5	92 /	8	78.2		-	10.7	67.5
Neutrogena	7 Fl. Oz. Bottle	PETE Bottle	218.5	24.7	243.2	90 /	10	99.6	0	31	0.0	99.6
	in Paperboard Box	Plastic Cap		5.5				22.2	0	0	0.0	22.2
		Paperboard Box		15.7				63.3	0	0	0.0	63.3
		Net	218.5	45.9	264.4	83 /	17	185.0			0.0	185.0
Garnier Fructis	13 fl. Oz. in Plastic Bottle	PETE Bottle	396.5	25.0	421.5	94 /	6	54.3	0	31	16.8	37.4
		Plastic Cap		7.6				16.5	0	0	0.0	16.5
		Plastic & Paper Label		1.0			_	2.2	0	0	0.0	2.2
		Net	396.5	33.6	430.1	92 /	8	72.9		_	16.8	56.1
Dove	8.45 oz. in Plastic Tube	Plastic Tube	257.7	15.2	272.9	94 /	6	50.8	0	0	0.0	50.8
		Plastic Cap		7.9				26.4	0	0	0.0	26.4
		Net	257.7	23.1	280.8	92 /	8	77.1		-	0.0	77.1
SNACKS				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				l bs
Doritos	10.5 oz. Plastic Bag	LDPE/Foil Bag	297.7	8.0	305.7	97 /	3	26.9	0	0	0.0	26.9
Doritos	1.25 oz. Plastic Bag	LDPE/Foil Bag	35.4	2.2	37.6	94 /	6	62.1	0	0	0.0	62.1
			4=0.4	10.5	100 (6 6	_		<u>,</u>	6		76 -
Doritos Multi-Pack	6 oz 6, 1 oz. Bags in	LDPE/Foil Pouches	1/0.1	12.0	182.1	93 /	1	/0.5	U	0	0.0	70.5
	Flastic Bag	LUPE Bay Not	170 1	12.8 24.8	10/ 0	<u>87</u> /	13 -	10.2	U	21	15.8	59.4 130.0
		INCL	170.1	24.0	194.9	011	10	140.0			10.0	100.0

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
SNACKS (cont.)				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Lay's Classic Mix	20 oz 20, 1 oz. Bags in	LDPE/Foil Pouches	567.0	40.0	607.0	93 /	7	70.5	0	0	0.0	70.5
	Plastic Bag	LDPE Bag		21.2				37.4	0	21	7.9	29.5
		Net	567.0	61.2	628.2	90 /	10	107.9			7.9	100.1
Lay's Classic Mix	32 oz 232, 1 oz. Bags in	LDPE/Foil Pouches	907.2	64.0	971.2	93 /	7	70.5	0	0	0.0	70.5
	Paperboard Box	Paperboard Box		265.5				292.7	0	28	81.9	210.7
		Net	907.2	329.5	1236.7	73 /	27	363.2			81.9	281.3
Lay's Stax	5.5 oz. Plastic Canister	Plastic Cannister	155.9	35.0	190.9	82 /	18	224.5	0	16	35.9	188.6
		LDPE Lid		5.1				32.7	0	0	0.0	32.7
		Foil/LDPE Seal		0.5				3.2	0	0	0.0	3.2
		Paper Label	455.0	3.5	000.0	70 /		22.5	0	0	0.0	22.5
		Net	155.9	44.1	200.0	/8/	22	282.9			35.9	247.0
Pringle's	5.96 oz. in Paperboard/Metal	Paper/Metal Container	169.0	40.7	209.7	81 /	19	240.8	15	0	36.1	204.7
	Canister	Plastic Lid		2.9				17.2	0	0	0.0	17.2
		Composite Seal		0.6			- · ·	3.6	0	0	0.0	3.6
		Net	169.0	44.2	213.2	79 /	21	261.5			36.1	225.4
Pringle's Cups	12.69 oz. 18-Plastic Tubs	PP Tubs	359.8	127.8	487.6	74 /	26	355.2	0	11	39.1	316.1
	in Paperboard Sleeve	Foil/LDPE Lids		14.4				40.0	0	0	0.0	40.0
		Plastic Overwrap		5.0				13.9	0	0	0.0	13.9
		Paperboard Carton	<u></u>	69.1	F70 4	<u> </u>	<u>.</u>	192.1	0	12	23.0	169.0
		Net	359.8	216.3	576.1	627	38	601.2			62.1	539.0
								Lbs. of Pkg/				
SOAP - BAR		-		Grams				1000 Lbs. of Pdct				Lbs.
Dove	3.17 oz. in Paperboard Box	Paperboard Box	89.9	8.0	97.9	92 /	8	89.0	0	28	24.9	64.1
Dove	16 oz 4, 4 0z. Bars in Boxes	Paperboard Boxes	453.6	36.0	489.6	93 /	7	79.4	0	28	22.2	57.1
	with Plastic Wrapper	Plastic Overwrap	_	2.5			-	5.5	0	0	0.0	5.5
		Net	453.6	38.5	492.1	92 /	8	84.9			22.2	62.7
								Lbs. of Pkg/				
SOAP - LIQUID				Grams				100 Gallon Liquid				Lbs.
Soft Soap Kitchen	8 fl. Oz. Plastic Bottle with	PETE Bottle	250.4	25.2	275.6	91 /	9	88.9	0	31	27.6	61.3
	Pump Dispenser	Plastic Pump		26.5				93.5	0	0	0.0	93.5
		Plastic Film Label		1.7				6.0	0	0	0.0	6.0
		Net	250.4	53.4	303.8	82 /	18	188.4			27.6	160.8

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
SOAP - LIQUID (cont.)				Grams				Lbs. of Pkg/ 100 Gallon Liquid				Lbs.
Soft Soap	56 fl. Oz. Plastic Bottle	PETE Bottle	1752.8	60.0	1812.8	97 /	3	30.2	0	31	9.4	20.9
	(Refill)	Plastic Cap Paper/Plastic Labels		5.1				2.6	0	0	0.0	2.6
		Net	1752.8	66.4	1819.2	96 /	4	33.5	Ū	- -	9.4	24.1
Soft Soap	5.5 fl. Oz Plastic Bottle	PETE Bottle	172.2	17.3	189.5	91 /	9	88.8	0	31	27.5	61.2
	with Pump Dispenser	Plastic Pump		10.9				55.9	0	0	0.0	55.9
		Paper & Plastic Labels	470.0	0.4		<u> </u>		2.1	0	0	0.0	2.1
		Net	172.2	28.6	200.8	86 /	14	146.7			27.5	119.2
Dove Body Wash	22 fl. Oz. Plastic Bottle	HDPE Bottle	688.6	44.2	732.8	94 /	6	56.7	0	21	11.9	44.8
		Plastic Cap Net	688.6	7.4 51.6	740.2	93 /	7	9.5 66.2	0	0	0.0 11.9	<u>9.5</u> 54.3
SOFT DRINKS,								Lbs. of Pkg/				
CARBONATED		_		Grams			_	100 Gallon Liquid				Lbs.
Coke Zero	2 Litre Plastic Bottle	PETE Bottle	1998.9	47.5	2046.4	98 /	2	19.8	0	31	6.1	13.7
		Plastic Cap Plastic Film Label		2.8				0.3	0	0	0.0	0.3
		Net	1998.9	51.1	2050.0	98 /	2	21.3	-		6.1	15.2
Coke Zero	1.25 Litre Plastic Bottle	PETE Bottle	1247.8	38.4	1286.2	97 /	3	25.7	0	31	8.0	17.7
		Plastic Cap		2.8				1.9	0	0	0.0	1.9
		Plastic Film Label Net	1247.8	0.6 41.8	1289.6	97 /	3	28.0	0	0 _	0.0 8.0	20.0
Canada Dry Ginger Ale	144 fl. oz. 12-12 oz. Cans	Aluminum Cans	4258 1	157.2	4415.3	96 /	4	30.8	0	55	16.9	13 9
Canada Dry Cingor Alo	in Paperboard Box	Paperboard Box	1200.1	89.8	1110.0	007		17.6	Ő	28	4.9	12.7
		Net	4258.1	247.0	4505.1	95 /	5	48.4		-	21.9	26.5
Coko	101 4 fl. oz. 6 500 ml. Plac. Pilo		2008 4	122.2	2121 6	06 /	4	27.1	0	21	11 5	25.6
CORE	with Loop Carrier	Plastic Caps	2990.4	16.8	5151.0	907	4	4.7	0	0	0.0	4.7
	·	Plastic Film Labels		2.4				0.7	0	0	0.0	0.7
		LDPE Loop Carrier Net	2998.4	4.4	3155.2	95 /	5	<u>1.2</u> 43.6	0	0 _	0.0	<u> </u>
Coke	60 fl. oz. 8-7.5 oz. Cans	Aluminum Cans	1774.2	103.6	1877.8	94 /	6	48.7	0	55	26.8	21.9
	with Loop Carrier	LDPE Loop Carrier Net	1774 2	3.4	1881 2	94 /	6	1.6 50.3	0	0 -	0.0	1.6 23.5

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
SOFT DRINKS, CARBONATED (cont.) Coca Cola Life	72 fl. oz. 6-12 oz. Cans with Loop Carrier	Aluminum Cans LDPE Loop Carrier Net	2129.0 2129.0	Grams 77.7 3.6 81.3	2206.7 2210.3	96 / 96 /	4 -	Lbs. of Pkg/ 100 Gallon Liquid 30.5 1.4 31.9	0 0	55 0	16.7 0.0 16.7	Lbs. 13.7 1.4 15.1
Coke	48 fl. oz. 6-8 oz. Glass Bottles in Paperboard Carrier	Glass Bottles Steel Caps Paperboard Carrier Net	1419.4 1419.4	1018.2 12.3 55.5 1086.0	2437.6 2505.4	58 / 57 /	42 43	598.6 7.2 32.6 638.4	0 0 0	41 79 28 _	245.4 5.7 9.1 260.3	353.2 1.5 23.5 378.2
Coke Zero	8.5 fl. oz. Metal Bottle with Loop Carrier	Aluminum Bottle Aluminum Cap Net	236.6 236.6	23.9 1.5 25.4	260.5 262.0	91 / 90 /	9 10 -	79.3 5.0 84.3	0 0	55 0	43.6 0.0 43.6	35.7 5.0 40.7
SOFT DRINKS, POWDERED Kool Aid 8 Servings	.22 oz. Composite Pouch	Composite Pouch	6.5	Grams 1.2	7.7	84 /	16	Lbs. of Pkg/ 4000 Servings 1.3	0	0	0.0	Lbs. 1.3
Kool Aid Low Calorie Mix 12 Servings	.37 oz 6 Packets in Paperboard Box	Foli & Plastic Packets Paperboard Box Net	10.5 10.5	3.3 13.2 16.5	13.8 27.0	76 / 39 /	24 61 -	2.4 9.7 12.1	0 0	0 0	0.0 0.0 0.0	2.4 9.7 12.1
Crystal Light 40 Servings	1.85 oz. Plastic Canister with Plastic Product Tubs	PP Container PP Lid Foil & Plastic Packets Plastic Label Net	52.5 52.5	26.6 2.7 5.8 2.6 37.7	79.1 90.2	66 / 58 /	34 42 -	5.9 0.6 1.3 0.6 8.3	0 0 0 0	11 11 0 0	0.6 0.1 0.0 0.0 0.0	5.2 0.5 1.3 0.6 7.6
Kool Aid 32 Servings	19 oz. Plastic Container	HDPE Canister Plastic Lid Plastic Film Label Net	538.6 538.6	38.2 17.6 1.8 57.6	576.8 596.2	93 / 90 /	7	10.5 4.9 0.5 15.9	0 0 0	21 0 0	2.2 0.0 0.0 2.2	8.3 4.9 <u>0.5</u> 13.7
SOFT DRINKS - SPORTS Gatorade Liquid 5 Servings	64 fl. Oz. Plastic Bottle	PETE Bottle Plastic Cap Plastic Film Label Net	1892.4 1892.4	77.1 4.6 0.9 82.6	1969.5 1975.0	96 / 96 /	4	136.0 8.1 1.6 145.7	0 0 0	31 0 0	42.2 0.0 0.0 42.2	93.8 8.1 <u>1.6</u> 103.5
Gatorade Powder 23 Servings	18.4 oz. Plastic Container	HDPE Container PP Lid Composite Seal Plastic Film Label Net	521.6 521.6	39.2 11.3 1.9 2.8 55.2	560.8 576.8	93 / 90 /	7	15.0 4.3 0.7 1.1 21.2	0 0 0 0	21 0 0 0	3.2 0.0 0.0 0.0 3.2	11.9 4.3 0.7 <u>1.1</u> 18.0

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
SOFT DRINKS - SPORTS (cont.)			Grams				Lbs. of Pkg/ 4000 Servings				Lbs.
Gatorade Liquid 2.5 Servings	32 fl. oz. Plastic Bottle	PETE Bottle Plastic Cap Plastic Film Label	946.2	47.2 4.6 1.1	993.4	95 /	5	166.5 16.2 3.9	- 0 0 0	31 0 0	51.6 0.0 0.0	114.9 16.2 3.9
		Net	946.2	52.9	999.1	95 /	5	186.6	_	-	51.6	135.0
SOUP Campbell Chicken RTE 2 Servings	14 oz. Plastic Pouch	Plastic Pouch	395.9	9.2	405.1	98 /	2	40.6	0	0	0.0	40.6
Bear Creek Minestrone Mix 8 Servings	9.3 oz. Plastic Pouch	Plastic Pouch	263.6	7.8	271.4	97 /	3	8.6	0	0	0.0	8.6
Imagine Creations 4 Servings	32 fl. oz. Aseptic Carton	Composite Carton	946.2	35.4	981.6	96 /	4	78.0	0	10	7.8	70.2
Imagine Creations 2 Servings	17.3 oz. Aseptic Carton	Composite Carton	490.0	21.3	511.3	96 /	4	93.9	0	10	9.4	84.5
Dole 3 Servings	26 oz. Aseptic Carton	Composite Carton	737.0	27.2	764.2	96 /	4	80.0	0	10	8.0	72.0
Progresso 2 Servings	18.5 oz. Metal Can	Steel Can Paper Label	524.0	71.9 2.7	595.9	88 /	12	317.0 11.9	0	71 0	225.1 0.0	91.9 11.9
		Net	524.0	74.6	598.6	88 /	12	328.9			225.1	103.8
Campbell's Condensed 2.5 Servings	10.5 Oz. Metal Can	Steel Can Paper Label	297.7	40.4 1.8	338.1	88 /	12	142.5 6.3	0 0	71 0	101.2 0.0	41.3 6.3
		Net	297.7	42.2	339.9	88 /	12	148.9		-	101.2	47.7
Red Mill (Dry Mix) 14 Servings	26 oz. Plastic Bag	Plastic Bag	737.1	9.8	746.9	99 /	1	6.2	0	0	0.0	6.2
Lipton Cup-a-Soup (Dry Mix) 4 Servings	1.8 oz. Paperboard Box	Comp. Envelopes Paperboard Box	51.4	7.6 14.9	59.0	87 /	13	16.8 32.8	0 0	0 28	0.0 9.2	16.8 23.7
		Net	51.4	22.5	73.9	70 /	30	49.6			9.2	40.4
Healthy Choice 2 Servings	14 oz. Plastic Bowl	PP Bowl Steel Lid	396.9	32.2 6.0	429.1	92 /	8	142.0 26.5	0 0	11 79	15.6 20.9	126.4 5.6
		Plastic Lid & Label Net	396.9	10.2 48.4	445.3	89 /	11 -	45.0 213.4	0	0 _	0.0 36.5	45.0 176.9

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
SOUP (Cont.)				Grams				Lbs. of Pkg/ 4000 Servings				Lbs.
Campbell's Soup on the Go	10.75 oz. Plastic Container	PP Container	304.7	26.7	331.4	92 /	8	235.4	0	11	25.9	209.6
1 Serving		Foil & Plastic Seal		0.8				7.1	0	0	0.0	7.1
		Plastic Lid & Label	204 7	5.9	220 1	00 /	10 -	52.0	0	0 -	0.0	52.0
		net	304.7	55.4	330.1	907	10	294.5			25.9	200.0
Maruchan Instant Ramen	2.25 oz. Plastic Container	EPS Cup	63.8	4.6	68.4	93 /	7	40.6	0	0	0.0	40.6
1 Serving	in Paperboard Sleeve	Plastic Lid		0.8				7.1	0	0	0.0	7.1
C C		Plastic Wrap		0.6				5.3	0	0	0.0	5.3
		Paperboard Sleeve	_	7.9			_	69.7	0	28	19.5	50.2
		Net	63.8	13.9	77.7	82 /	18	122.6		-	19.5	103.1
SOUP, FRESH REFRIGERA	ATED											
Whole Foods Jambalaya 3 Servings	24 oz. Plastic Pouch	Plastic Pouch	680.4	10.0	690.4	99 /	1	29.4	0	0	0.0	29.4
Fresh Foods	24 oz. Plastic Tub	PP Container	680.4	23.0	703.4	97 /	3	67.6	0	11	7.4	60.2
3 Servings		LDPE Lid & Label		8.4				24.7	0	0	0.0	24.7
		Plastic Seal		0.9				2.6	0	0	0.0	2.6
		Plastic Film Label	_	0.6			_	1.8	0	0	0.0	1.8
			680.4	32.9	713.3	95 /	5	96.7			7.4	89.3
In the Sour	24 oz Glass Jar	Glass Jar	680.4	354.0	1034.4	66 /	34	1040.6	٥	15	156 1	884 5
3 Servings	24 02. 01033 501	Steel Lid	000.4	13.6	1004.4	007	54	40.0	0	79	31.6	84
o ociviligo		Paper Label		2				5.9	0 0	0	0.0	5.9
		Net	680.4	369.6	1050.0	65 /	35	1086.4		-	187.7	898.8
								Lbs. of Pkg/				
SPINACH				Grams	100.0	70 /		1000 Lbs. of Pdct			10.0	Lbs.
Simple Truth Fresh	5 oz. Plastic Carton	PP Container	141.8	51.5	193.3	73 /	27	363.2	0	11	40.0	323.2
		Paper Label Net	141.8	52.7	194.5	73 /	27	8.5 371 7	. 0	0 -	40.0	331.7
		Net	141.0	02.1	104.0	101	21	0111			40.0	001.7
Dole Fresh	6 oz. Bag	Plastic Bag	170.1	6.0	176.1	97 /	3	35.3	0	0	0.0	35.3
Stahlbush Farms Frozen	10 oz. Bag	Paper & Plastic Bag	283.5	9.1	292.6	97 /	3	32.1	0	0	0.0	32.1
Cascadian Farms Frozen	10 oz. Paperboard Carton	Paperboard Carton	283 5	23 0	306.5	92 /	8	81 1	0	28	22 7	58 4
		Plastic Bag	200.0	3.5	000.0		2	12.3	0	0	0.0	12.3
		Net	283.5	26.5	310.0	91 /	9	93.5			22.7	70.8

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
SPINACH (cont.)				Grams			_	Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Kroger	14 oz. Can	Steel Can	396.9	58.5	455.4	87 /	13	147.4	0	79	116.4	31.0
		Paper Label		2.4				6.0	0	0 _	0.0	6.0
		Net	396.9	60.9	457.8	87 /	13	153.4			116.4	37.0
Kroger	7.75 oz. Can	Steel Can	219.7	40.0	259.7	85 /	15	182.1	0	79	143.8	38.2
		Paper Label Net	219.7	1.5 41.5	261.2	84 /	16 -	6.8 188.9	0	0 _	0.0 143.8	<u>6.8</u> 45.1
STRAWBERRIES Central West	32 oz. in Plastic Carton	PETE Carton	907.2	44.0	951.2	95 /	5	48.5	0	3	1.5	47.0
Fresh		Paper Labels		0.2				0.2	0	0	0.0	0.2
		Net	907.2	44.2	951.4	95 /	5	48.7			1.5	47.3
Kroger Private Selection Frozen	16 oz. Plastic Bag	Plastic Bag	453.6	10.8	464.4	98 /	2	23.8	0	0	0.0	23.8
Kroger Private Selection	16 oz. Tub	PP Tub	453.6	13.7	467.3	97 /	3	30.2	0	11	3.3	26.9
Frozen				9.0				19.8	0	21	4.2	15.7
		Paper Labels		1.0				2.2	0	0	0.0	2.2
		Plastic Seal	453.6	24.0	477 6	95 /	5 -	52.9	0	0 -	7.5	45.4
			100.0	21.0	111.0	007	0	Lbs of Pka/			1.0	10.1
SWEETENER				Grams				10.000 Servings				Lbs.
Truvia	24 oz. Pouch	Plastic Pouch	680.4	15.7	696.1	98 /	2	1.0	0	0	0.0	1.0
340 Servings		Plastic Cap	_	1.3			_	0.1	0	0	0.0	0.1
		Net	680.4	17.0	697.4	98 /	2	1.1			0.0	1.1
Kroger Stevia Blend	9.8 oz. in Plastic Jar	PETE Jar	277.8	30.6	308.4	90 /	10	4.8	0	31	1.5	3.3
140 Servings		Plastic Lid		11.8				1.9	0	0	0.0	1.9
		Foil & Plastic Seal		1.3	004 -	00 /		0.2	0	0 _	0.0	0.2
		Net	277.8	43.7	321.5	86 /	14	6.9			1.5	5.4
Kroger Stevia Blend	5.6 oz Packets in	Paper Packets	158.8	30.8	189.6	84 /	16	8.5	0	0	0.0	8.5
80 Servings	Paperboard Box	Paperboard Box	450.0-	18.8	000 4	70 /	<u> </u>	5.2	0	28	1.5	3.7
		Net	158.8	49.6	208.4	76 /	24	13.7			1.5	12.2
Kroger Stevia Blend	2.8 oz Packets in	Paper Packets	79.4	15.4	94.8	84 /	16	8.5	0	0	0.0	8.5
40 Servings	Paperboard Box	Paperboard Box Net	79.4	15.7 31.1	110.5	72 /	28 -	8.7 17.1	U	28	2.4	<u>6.2</u> 14.7
Kroger Stevia Blend Liquid	1.68 fl. Oz. in Plastic Bottle	Plastic Bottle	50.0	15.4	65.4	76 /	24	2.1	0	0	0.0	2.1
160 Servings		Plastic Overwrap Net	50.0	15.7 31 1	81 1	62 /	38 -	2.2	0	0 -	0.0	2.2
		i i i i i i i i i i i i i i i i i i i	00.0	U	01.1	02 /					0.0	

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
TABLE SYRUP				Grams				Lbs. of Pkg/ 100 Gallon Liquid				Lbs.
Kroger Private Selection	12 Fl. Oz. Glass Bottle	Glass Bottle	474.0	309.5	783.5	60 /	40	727.8	0	15	109.2	618.6
		Plastic Cap & Seal		2.4				5.6	0	0	0.0	5.6
		Paper Label		0.8				1.9	0	0	0.0	1.9
		Net	474.0	312.7	786.7	60 /	40	735.3			109.2	626.2
Maple Gold	12 Fl. Oz.Foil & Plastic Pouch	Pouch and Spout	474.0	10.8	484.8	98 /	2	25.4	0	0	0.0	25.4
	and Plastic Spout	Plastic Cap and Seal	474.0	1.5	400.0	07 /	· -	3.5	0	0 _	0.0	3.5
		Net	474.0	12.3	486.3	977	3	28.9			0.0	28.9
Kroger Original	12 Fl. Oz. Plastic Bottle	PETE Bottle	474.0	23.7	497.7	95 /	5	55.7	0	31	17.3	38.5
0 0		Plastic Cap		4.1				9.6	0	0	0.0	9.6
		Composite Seal		0.2				0.5	0	0	0.0	0.5
		Paper Label	_	0.6			_	1.4	0	0	0.0	1.4
		Net	474.0	28.6	502.6	94 /	6	67.3		-	17.3	50.0
Mrs Butterworth	24 fl Oz Plastic Bottle	PETE Bottle	948 0	40.8	988.8	96 /	4	48.0	0	31	14 9	33 1
		Plastic Cap	010.0	3.6	000.0	00 /		4 2	0	0	0.0	4 2
		Composite Seal		0.2				0.2	0	0	0.0	0.2
		Paper Label		1.2				1.4	0	0	0.0	1.4
		Net	948.0	45.8	993.8	95 /	5	53.9		-	14.9	39.0
Log Cabin	22 fl. Oz. in Plastic Jug	HDPF Bottle	869.0	63.9	932.9	93 /	7	82.0	0	21	17 2	64 8
		Plastic Cap	000.0	3.6	002.0	00 /		4.6	0 0	0	0.0	4.6
		Composite Seal		0.2				0.3	0	0	0.0	0.3
		Paper Label		1.9				2.4	0	0	0.0	2.4
		Net	869.0	69.6	938.6	93 /	7	89.3		-	17.2	72.1
								lbs of Pka/				
TOOTHPASTE				Grams				1000 Lbs. of Pdct				Lbs.
Crest	6.4 oz. Plastic Tube and	Plastic & Foil Tube	181.4	6.3	187.7	97 /	3	34.7	0	0	0.0	34.7
	Paperboard Box	Plastic Cap		1.0				5.5	0	0	0.0	5.5
		Paperboard Box		12.9				71.1	0	28	19.9	51.2
		Net	181.4	20.2	201.6	90 /	10	111.4			19.9	91.4
Crest 3-D	3.0 oz. Plastic Tube and	Plastic & Foil Tube	85.1	5.7	90.8	94 /	6	67.0	0	0	0.0	67.0
	Paperboard Box	Plastic Cap		5.9				69.3	0	0	0.0	69.3
		Paperboard Box	_	11.7			_	137.5	0	28	38.5	99.0
		Net	85.1	23.3	108.4	79 /	21	273.8		-	38.5	235.3
Crest Complete	4.6 oz. Plastic Squirt Bottle	PP Bottle & Lid	130.2	18.0	148.2	88 /	12	138.2	0	11	15.2	123.0
		Plastic Label		0.8				6.1	0	0	0.0	6.1
		Net	130.2	18.8	149.0	87 /	13	144.4		-	15.2	129.2

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
TOOTHPASTE (cont.)				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Colgate Optic white	3.4 oz. Plastic Tube and	Plastic & Foil Tube	96.4	7.2	103.6	93 /	7	74.7	0	0	0.0	74.7
	Paperboard Box	Plastic Cap		4.9				50.8	0	0	0.0	50.8
		Paperboard Box Net	96.4	25.9	122.3	79 /	21	268.7	0	28	40.1	228.6
				20.0				200				
Toms of Maine	4.2 oz. Plastic Tube	Plastic Tube	119.0	6.8	125.8	95 /	5	57.1	0	0	0.0	57.1
		Plastic Cap		6.5				54.6	0	0	0.0	54.6
		Foil Seal		0.1				0.8	0	0	0.0	0.8
		Net	119.0	13.4	132.4	90 /	10	112.6			0.0	112.6
								Lbs. of Pkg/				
TUNA				Grams				1000 Lbs. of Pdct				Lbs.
Star Kist	12 oz Can	Steel Can	340.3	53.8	394 1			158 1	0	71	112 2	45.8
		Paper Label	010.0	1.2	001.1			3.5	0	0	0.0	3.5
		Net	340.3	55.0	395.3	86 /	14	161.6			112.2	49.4
Star Kist	11 oz. Pouch	Foil/LDPE Pouch	311.9	12.2	324.1	96 /	4	39.1	0	0	0.0	39.1
Standard Size												
Star Kist	5 oz. Can	Steel Can	141.8	28.8	170.6			203.1	0	71	144.2	58.9
		Paper Label		0.7				<u>4.9</u>	0	0	<u>0.0</u>	<u>4.9</u>
		Net	141.8	29.5	171.3	83 /	17	208.0			144.2	63.8
Bumble Bee	5 oz. Pouch	Foil/LDPE Pouch	141.8	6.4	148.2	96 /	4	45.1	0	0	0.0	45.1
Single Serve Size												
Star Kist	2.6 oz. Pouch	Foil/LDPE Pouch	73.7	5.7	79.4	93 /	7	77.3	0	0	0.0	77.3
Bumble Bee	9 oz 3-3 oz Cans in	Steel Cans	255.2	68 1	323 3			266.8	0	71	189 5	77 4
	Paperboard Sleeve	Paper Labels	200.2	1.8	02010			7.1	0	0	0.0	7.1
		Can	255.2	69.9	325.1	78 /	22	273.9				84.4
		Paperboard Sleeve		12.2				47.8	0	28	<u>13.4</u>	<u>34.4</u>
		Net	255.2	82.1	337.3	76 /	24	321.7			202.8	118.9
Kroger	9 oz. 3 -3 oz Cans in	Steel Cans	255 2	74.1	329 3			290.4	0	71	206.2	84.2
- 0	in Plastic Shrink Wrap	Paper Labels		2.1				8.2	0	0	0.0	8.2
	·	Can	255.2	76.2	331.4	77 /	23	298.6				92.4
		Plastic Shrink Wrap		<u>1.6</u>				<u>6.3</u>	0	0	0.0	<u>6.3</u>
		Net	255.2	77.8	333.0	77 /	23	304.9			206.2	98.7

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
WATER				Grams				Lbs. of Pkg/ 100 Gallon Liquid				Lbs.
Eldorado	1 Gallon Jug (3.78 Litre)	HDPE Jug	3780.0	63.5	3843.5	98 /	2	14.0	0	28	3.9	10.1
		LDPE Cap		2.8				0.6	0	0	0.0	0.6
		Paper Label	2700.0	0.9	2047.2	00 /	· -	0.2	0	0 -	0.0	0.2
		Net	3780.0	07.2	3847.2	98 /	2	14.8			3.9	10.9
Arrowhead	3 Litre Plastic Jug	PETE Jug	3000.0	77.5	3077.5	97 /	3	21.6	0	31	6.7	14.9
		Plastic Cap		3.9				1.1	0	0	0.0	1.1
		Net	3000.0	82.6	3082.6	97 /	3 -	23.0	0	- U	6.7	16.3
			0000.0	02.0	0002.0	011	U	20.0			0.1	10.0
Dasani	16.9 fl oz. (500 mL)	PETE Bottle	500.0	12.9	512.9	97 /	3	21.5	0	31	6.7	14.9
	Plastic Bottle	Plastic Closure Plastic Film Label		2.3 0.3				3.8 0.5	0	0	0.0	3.8 0.5
		Net	500.0	15.5	515.5	97 /	3	25.9			6.7	19.2
Aqua Hydrate	16.9.fl Oz (500 ml)	PETE Bottle	500.0	23.6	523.6	95 /	5	39.4	0	31	12.2	27.2
, iquu riyuruto	Plastic Bottle	Plastic Closure	000.0	2.1	020.0	00 /	0	3.5	0	0	0.0	3.5
		Film Label	_	1.6			_	2.7	0	0	0.0	2.7
		Net	500.0	27.3	527.3	95 /	5	45.6			12.2	33.4
Eldorado	3.0 Litres 6-500ml Bottles	PETE Bottles	3000.0	117.0	3117.0	96 /	4	32.6	0	31	10.1	22.5
	Plastic Loop Carrier	Plastic Caps		13.8				3.8	0	0	0.0	3.8
		Plastic Film Labels		2.4				0.7	0	0	0.0	0.7
		Net	3000.0	146.0	3146.0	95 /	5	40.6		- -	10.1	30.5
King Soopers	12 Litres 24 -500ml Bottles	PETE Bottles	12000 0	184 8	12184 8	98 /	2	12.9	0	31	4 0	8.9
i ilig ocopolo	with Plastic Overwrap	Plastic Caps		20.4			-	0.2	0	0	0.0	0.2
		Plastic Film Labels		4.8				0.3	0	0	0.0	0.3
		Plastic Overwrap	40000.0	24.2	40004.0	<u> </u>	- -	1.7	0	0 _	0.0	1.7
		Net	12000.0	234.2	12234.2	98 /	2	16.3			4.0	11.1
S. Pelligrino	1.5 L - 6 x 250 mL Glass Bottles	Glass Bottles	1500.0	936.0	2436.0	62 /	38	521.0	0	15	78.1	442.8
	Paperboard Carton	Metal & Plastic Caps		7.2 0 /				4.0	0	0	0.0	4.0
		Paper Labels Paperboard Carton		0.4 25.0				4.7	0	28	3.9	4.7
		Net	1500.0	976.6	2476.6	61 /	39	543.6	, ů		82.0	461.5
S. Pelligrino	750 ml Glass Bottle	Glass Bottle	750.0	445.8	1195.8	63 /	37	497.2	0	15	74.6	422.6
		Metal Can		0.4 0.8				0.4	0	U 70	0.0	0.4
		Paper Labels		3.0				3.3	0	0	0.0	3.3
		Net	750.0	450.0	1200.0	63 /	38	501.9	-		75.3	426.6

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
WATER (cont.)				Grams				Lbs. of Pkg/ 100 Gallon Liguid				Lbs.
Perrier	10-8.45 oz. (250 mL) Cans	AL Cans	2500.0	106.0	2606.0	96 /	4	35.4	0	55	19.5	15.9
	Aluminum Cans	Paperboard Carton		74.4				24.8	0	28	7.0	17.9
		Net	2500.0	180.4	2680.4	93 /	1	60.2			26.4	33.8
YOGURT - BULK				Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Stonyfield	32 oz. Plastic Container	PP Container	907.2	23.6	930.8	97 /	3	26.0	0	11	2.9	23.2
		Plastic Lid		5.3				5.8	0	0	0.0	5.8
		Foil/LDPE Seal	· ·	1.4				1.5	0	0	0.0	1.5
		Net	907.2	30.3	937.5	97 /	3	33.4			2.9	30.5
Glen Oaks	24 oz Plastic Bottle	HDPF Bottle	680 4	33 5	713 9	95 /	5	49.2	0	21	10.3	38.9
		Plastic Lid	000.1	2.8	110.0	007	Ũ	4.1	0 0	0	0.0	4.1
		Plastic Film Label		3.3				4.9	0	0	0.0	4.9
		Net	680.4	39.6	720.0	95 /	6	58.2			10.3	47.9
White Mountain	hite Mountain 16 Fl. Oz. in Glass Jar Glass Jar 480.0 258.9 738	738.9	65 /	35	539.4	0	15	80.9	458.5			
		Plastic Lid & Seal		10.0				20.8	0	0	0.0	20.8
		Paper Label	_	1.0				2.1	0	0	0.0	2.1
		Net	480.0	269.9	749.9	64 /	36	562.3			80.9	481.4
Noosa	16 oz. in Plastic Container	PP Container	453.6	16.2	469.8	97 /	3	35.7	0	11	3.9	31.8
		Plastic Lid		5.8				12.8	0	0	0.0	12.8
		Foil Seal		1.5		a= /		3.3	0	0	0.0	3.3
		Net	453.6	23.5	477.1	95 /	5	51.8			3.9	47.9
YOGURT - SINGLE SERIV	E											
Noosa	8 oz. in Plastic Container	PP Container	226.8	12.5	239.3	95 /	5	55.1	0	11	6.1	49.1
		Plastic Lid		5.8				25.6	0	0	0.0	25.6
		Foil Seal	226.0	1.5	246.6	02 /	。 ·	6.6	0	0	0.0	6.6
		Net	220.8	19.8	240.0	92 /	8	87.3			0.1	81.2
Smari	6 oz. in Plastic Cup	PP Cup	170.1	6.4	176.5	96 /	4	37.6	0	11	4.1	33.5
		Foil Lid		1.0				5.9	0	0	0.0	5.9
		Paperboard Label		3.1				18.2	0	28	5.1	13.1
		Net	170.1	10.5	180.6	94 /	6	61.7			9.2	52.5
Yoplait	6 oz. Plastic Cup	PP Cup	170.1	7.2	177.3	96 /	4	42.3	0	11	Credit 19.5 7.0 26.4 2.9 0.0 0.0 2.9 10.3 0.0 0.0 10.3 80.9 0.0 0.0 0.0 80.9 0.0 0.0 0.0 80.9 0.0 0.0 0.0 80.9 0.0 0.0 0.0 80.9 0.0 0.0 0.0 80.9 0.0 0.0 0.0 80.9 0.0 0.0 0.0 80.9 0.0 0.0 0.0 0.0 80.9 0.0 0.0 0.0 0.0 80.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	37.7
		Foil Lid		0.5			-	2.9	0	0	0.0	2.9
		Net	170.1	7.7	177.8	96 /	4	45.3			4.7	40.6

Category/Product	Package Type	Material Type	Pdct Wght	Pkg Wght	Total Wght	% Pdct	% Pkg	Equiv Pkg Comparison	% From Rec. Mat.	% Recycled	Recycle Credit	Net Discards
YOGURT - SINGLE SERIVI	E (cont.)			Grams				Lbs. of Pkg/ 1000 Lbs. of Pdct				Lbs.
Muller	5.3 oz in Plastic Container	Plastic Container Foil Lid Paper Label	150.3	9.4 0.8 0.3	159.7	94 /	6	62.5 5.3 2.0	0 0	0 0	0.0 0.0	62.5 5.3 2.0
		Net	150.3	10.5	160.8	93 /	7	69.9	Ū	<u> </u>	0.0	69.9
Oikos	5.3 oz. In Plastic Cup	PP Cup Foil Lid	150.3	7.0 0.5	157.3	96 /	4	46.6 3.3	0 0	11 0	5.1 0.0	41.5 3.3
		Paper Label Net	150.3	1.0 8.5	158.8	95 /	5	6.7 56.6	0	0	0.0 5.1	<u>6.7</u> 51.4
Fage	5.3 oz in Plastic Container	PP Container Foil Lid	150.3	9.0 1.0	159.3	94 /	6	59.9 6.7	0 0	11 0	6.6 0.0	53.3 6.7
		Paper Label Net	150.3	2.6 12.6	162.9	92 /	8	17.3 83.8	0	0	0.0 6.6	<u> </u>
Stoneyfield Yo-kids	3.7 oz. Squeeze Pouch	Plastic Pouch Plastic Cap	104.9	5.2 3.6	110.1	95 /	5	49.6 34.3	0 0	0 0	0.0 0.0	49.6 34.3
		Net	104.9	8.8	113.7	92 /	8	83.9		-	0.0	83.9
YOGURT- SINGLE SERVE Dannon Danimals	MULTI-PACKS 16 oz 4- 4 oz. Squeezable Pouches in Paperboard Boxes	Compositie Pouches Plastic Caps	453.6	21.4 13.0	475.0	95 /	5	47.2 28.7	0 0	0 0	0.0 0.0	47.2 28.7
		Paperboard Box Net	453.6	48.0 82.4	536.0	85 /	15	105.8 181.7	0	28	29.6	152.0
Activia 4-Pack	16 oz 4-4 oz. Containers	PS Cups Foil Lids	453.6	14.4 1.0	468.0	97 /	3	31.7 2.2	0 0	11 0	3.5 0.0	28.3 2.2
		Paper Labels Net	453.6	4.0 19.4	473.0	96 /	4	8.8 42.8	0	0	0.0 3.5	<u>8.8</u> 39.3
Yo-Kids Squeezables	16 oz 8 -2 oz. Plastic Tubes in Paperboard Box	LDPE Tubes Paperboard Box	453.6	10.4 34.5	464.0	98 /	2	22.9 76.1	0 0	21 28	0.0 9.1	22.9 66.9
	· · · · · · ·	P	453.6	44.9	498.5	91 /	9	99.0	-	-	9.1	89.9
Oikos 4-Pack	21.2 oz 4-5.3 oz. Plastic Containers in Paperboard Box	PP Cups Foil Lids	601.0	28.0 4.0	629.0	96 /	4	46.6 6.7	0 0	11 0	5.1 0.0	41.5 6.7
		Paper Labels Paperboard Box Net	601.0	2.0 24.0 58.0	659.0	91 /	9 -	3.3 <u>5.3</u> 61.9	0	0 28	0.0 1.5 1.5	3.3 <u>3.8</u> 55.3