

# BPA IN CANNED FOOD: BEHIND THE BRAND CURTAIN

## ENVIRONMENTAL WORKING GROUP

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The Environmental Working Group is the nation's most effective environmental health research and advocacy organization. Our mission is to conduct original, game-changing research that inspires people, businesses and governments to take action to protect human health and the environment. With your help – and with the help of hundreds of organizations with whom we partner – we are creating a healthier and cleaner environment for the next generation and beyond.

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# BPA IN CANNED FOOD: BEHIND THE BRAND CURTAIN

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## EXECUTIVE SUMMARY

Many food companies have pledged publicly to stop using bisphenol A-based epoxy coatings to line their metal food cans, because BPA is a synthetic estrogen that scientists have linked to breast cancer, reproductive damage, developmental problems, heart disease and other illnesses.

But have they delivered?

The Environmental Working Group's comprehensive survey of the American canned food marketplace has found that although some food companies and brands – from small independent labels like Amy's to global food giants like the Hain Celestial Group – offer BPA-free packaging in all product lines, others, such as Target Corp. and Hormel Foods Corp. still use cans containing BPA. Disturbingly, consumers have no reliable way of knowing whether a canned food item is BPA-free.

EWG's survey of 252 brands produced by 119 companies<sup>1</sup> between January and August 2014 found that:

- 31 brands - 12 percent of the brands in our sample – used BPA-free<sup>2</sup> cans for all canned products.

<sup>1</sup> The term "company" applies to an entity with control or influence over a brand's use, or non-use, of BPA. The brand name and the company name are not always interchangeable. The "company" could also refer to the manufacturer, the distributor, the retailer, or any combination of these.

<sup>2</sup> The term "using BPA-free" is meant to indicate the company is either purchasing or manufacturing cans with no BPA added to the can lining. Companies can assure that cans are BPA-free but have less control over the food ingredients. For a more detailed explanation of the term, see Appendix A.

\* In June 2015, ConAgra Foods informed EWG that it has made substantial progress removing BPA from its product packaging portfolio, with plans to complete its transition to BPA alternatives by the end of July 2015.

- 34 brands, or 14 percent, used BPA-free cans for one or more of their canned products.
- 78 brands, or 31 percent, used BPA-lined cans for all products. About 46 percent of the brands in this group did not say whether they were working with can suppliers or packaging manufacturers to shift to BPA-free cans or to test substitutes.
- 43 percent of all brands gave ambiguous or incomplete answers to questions about their use of BPA and/or did not respond to EWG's queries.
- Companies that said they had eliminated BPA or were in the process of doing so did not disclose the substitutes they were using, an omission that had the effect of slowing scientific study of the possible hazards of these substitute materials. Only 13 brands volunteered even a vague description of the alternative can coatings they use.
- In the absence of a clear national standard, companies can define "BPA-free" as they wish. As a result, some products labeled BPA-free may have some amount of the chemical in can linings.

The U.S. canning industry is at a critical turning point. Strong and clear regulatory guidance and increased transparency and accessibility of information are sorely needed so that consumers can be assured that cans are truly BPA-free and that the alternatives being substituted for BPA-based epoxy are safe.

The public cannot rely on current federal laws that regulate chemicals and food additives to ensure that BPA replacement chemicals are safer than BPA-based materials.

# THE CANNED FOOD LANDSCAPE

The global canned food market was worth more than \$77 billion in 2013 and is expected to reach nearly \$100 billion by 2020 (Research and Markets 2013). Anchoring that growth are canned foods' convenience, affordability and shelf-stability. Canned food can be a good source of nutrients, especially for people on tight budgets or with limited access to fresh foods. In fact, canned food is a routine part of many diets, contributing as much as 17 percent of daily nutrients for some people (FDA 2008).

Can linings, in use since the 1950s, are necessary to prevent or slow the interaction of a food with a can's metal. Epoxy resin, made from polymers containing BPA, has been favored for can coatings because it protects against metal corrosion and holds up to the heat extremes of sterilization.

Over the last 20 years, however, a steady stream of scientific studies have documented the human health hazards of BPA, including its links to an array of illnesses and its tendency to migrate from food packaging into food.

The North American Metal Packaging Alliance, a trade group representing the metal food packaging industry, estimates that 75 percent of canned foods sold in the U.S. are lined with a BPA-based polymer (Rost in Main 2015). Residual or unreacted BPA leaches from the can into food. In 2007, [EWG tested nearly 100 canned foods and baby formula](#) and detected BPA in more than half of the samples. BPA concentrations ranged from 2 to 385 parts per billion in food (EWG 2007).

These results were confirmed and extended by testing performed by the Canadian government, the federal Food and Drug Administration, academic researchers and non-profit groups (Bemrah 2014, Cao 2008, Cao 2010, Consumer Reports 2009a, FAO/WHO 2011, Kannan and Liao 2013, National Workgroup for Safe Markets 2010, Noonan 2011, UKFSA 2001).

Nearly all Americans have measureable concentrations of BPA in their bodies; canned food is presumed to be a major source of their

exposures. Harvard students who volunteered to eat canned soup daily showed a 10-fold increase in BPA concentrations in their urine compared to days that they ate fresh soup (Carwile 2011). Another study found an average 4.5 point increase in blood pressure among study participants on days they drank two servings of a beverage packaged in a BPA-based metal can as opposed to days they drank the same beverage from a glass container (BAE 2015).

## HEALTH HAZARDS OF BPA

Bisphenol A has been shown to mimic thyroid and sex hormones in people and animals. It has been associated with a wide variety of health problems, including altered brain and nervous system development and changes in the reproductive system. Much of the evidence of BPA toxicity is based on laboratory animal studies, where low exposures to BPA during pregnancy or early life can permanently affect fertility, behavior and body size and can predispose animals to later life cancers (Vandenberg 2013).

There is less than definitive evidence of BPA toxicity to people, but observational studies associate BPA exposure with a host of issues, including behavioral changes in children and diseases like obesity and heart disease.

While it is not clear how much BPA ingestion is harmful to humans, the existing evidence suggests that the developing fetus and young child are most at risk. Children cannot metabolize and excrete BPA as quickly and efficiently as adults (Edginton 2009, Ginsberg 2009). Detoxified BPA can be reactivated as it passes through the placenta to the fetus (Corbel 2015).

## REGULATION OF BPA

In January 2010 the FDA announced that it had "some concern about the potential effects of BPA on the brain, behavior, and prostate gland in fetuses, infants and young children" (FDA 2010). It launched new efforts to reduce consumption of BPA from food by directing industry to replace BPA-based

plastic in baby bottles, to shift away from BPA-based can linings for liquid baby formula and to explore alternative packaging for canned foods. FDA officials said that the agency had limited authority over BPA and other food packaging materials in use before 2000 and asked the canned food industry to submit information voluntarily about the use of BPA in food packaging (FDA 2010).

The American Chemistry Council, the chemical industry's powerful lobbying arm, and the food canning industry have spent millions of dollars defending the use of BPA. The chemical is still permitted in most food containers, including cans. Despite ongoing campaigns by advocacy groups and lawmakers, only 13 states, the District of Columbia and a few local jurisdictions have banned BPA in reusable food containers or children's cups and baby bottles. In 2011, EWG was instrumental in getting BPA banned from children's foodware in [California](#) (Assembly Bill 1319, 2011). In 2012, the FDA denied a petition by the Natural Resources Defense Council to ban BPA in all food and beverage packaging (NRDC 2012).

To date, Maryland, Connecticut, Minnesota, Nevada and Vermont are the only states to have established BPA limits on the sale and distribution of one-time use food containers, including cans, of infant formula or baby food (NCSL 2015). Maryland has banned baby formula containing more than 0.5 parts per billion BPA (House Bill 4, 2011; Senate Bill 151, 2011). These state laws and FDA's concern prompted the formula industry to stop using BPA in formula packaging by 2013 (FDA 2013).

Despite progress to lower infant exposures to BPA through food and bottles, neither the FDA nor any other U.S. regulatory agency restricts the level of BPA allowed in food and other consumer products for children and adults. Other countries, however, have established specific limits on the amount of BPA allowed in any packaged food. The European Union's limit is 600 parts per billion of BPA per kilogram of food, and Japan's limit is 2,500 ppb (European Food Safety Authority (EFSA) 2010, FAO/WHO 2009). Both values are much higher than the amount of BPA typically detected in canned foods (Kannan and Liao

2013) and too high to protect health or even have a meaningful effect on food production practices.

Citing BPA's adverse effects on breast development, France has suspended production, import, export and marketing of BPA-laden packaging that comes into direct contact with food (USDA 2013). France set its safe level of BPA exposure at 0.0025 ppb per day, thousands of times lower than any other government's. In the late 1990s Japan implemented an industry-wide shift of can coatings from epoxy resin to polyethylene terephthalate (PET) film or epoxy resin with lower BPA levels (Kawamura 2014). That led to a significant decrease in the levels of BPA in the bodies of people tested (Matsumoto 2003). It is difficult to determine a level of BPA that poses no risk to children, pregnant women and other populations based on current scientific knowledge. EWG believes that replacing BPA in can linings would lower the amount of BPA in food to less than 1 part per billion, and that development would be a significant improvement.

The FDA continues to support the use of BPA linings in food cans. Last December it released an updated safety assessment that proclaimed that "BPA is safe at the current levels occurring in foods" (FDA 2014). The agency based its determination on the results of a 90-day toxicity study. While FDA scientists concluded the study found no low-dose effects of BPA in test animals, critics point out that the animals FDA reared as an unexposed or "control" group had BPA exposures in line with its two lowest dose groups (Hunt 2014). Furthermore the agency is rushing to judgment. The 90-day study was a pilot for a multi-year, multi-million dollar toxicity investigation called Clarity-BPA, which is a partnership between the FDA, the National Institute of Environmental Health Sciences and dozens of academic researchers. The consortium presents an unprecedented scope for evaluation of BPA toxicity. FDA's December announcement was a particularly bizarre move, considering the abundance of studies currently pending completion.

While the FDA regulates food packaging uses of BPA, the Environmental Protection Agency regulates many other uses. In 2009, the [EPA named BPA](#) one of 10 chemicals and chemical groups for which it would be creating action plans (EPA 2015a). Notably,

as part of the BPA action plan, the [EPA has proposed rulemaking](#) under the Toxic Substances Control Act to identify BPA as “a substance that may present an unreasonable risk of injury to the environment on the basis of its potential for long-term adverse effects on growth, reproduction and development in aquatic species at concentrations similar to those found in the environment” (EPA 2015b). However, this proposed rule has been [stalled](#) in the Office of Management and Budget for several years (EPA 2015c).

While the proposed rule languishes in the OMB, last May California secured a landmark victory when the Developmental and Reproductive Toxicant Identification Committee of the Office of Environmental Health Hazard Assessment voted unanimously to add BPA to the state’s Proposition 65 list. California’s Safe Drinking Water and Toxic Enforcement Act of 1986, better known as Prop 65, requires a clear and reasonable warning before exposing an individual to a carcinogen or reproductive toxin on the Prop 65 list. After weighing expert testimony from public health groups including EWG, the committee classified BPA as a female reproductive toxin. It plans a separate meeting to determine which of the products that contain BPA must bear Prop 65 warning labels. The Prop 65 designation could prompt some manufacturers to switch to BPA-free can linings, even before formal labeling rules take effect.

## EWG’S MARKET SURVEY AND ANALYSIS

EWG’s survey focused on brands and companies offering classic canned foods – vegetables, fruits, juices, beans, soups, stews and other canned meals, deli goods, tomatoes, sauces, meat, fish and shellfish, canned milk, coconut milk and desserts. Previous testing of some of these products had shown that BPA could migrate from the can linings to the food at levels that posed a risk to health.

To develop its list of canned food brands and companies, EWG searched corporate and brand websites and used data and images from LabelINSIGHT® (Appendix A), a company that gathers information from American supermarkets. EWG

collected information on current can lining practices from brand and company websites and social media pages and through direct phone and email communication with company representatives. The bulk of direct communication with companies took place over eight months from January to August 2014.

In all, EWG identified 252 appropriate food brands produced by 119 companies (Appendix B), including small independent companies, major global food brands and private-label brands from major supermarket chains.

## CATEGORIES

EWG classified each brand’s BPA use in one of four categories<sup>3</sup>:

- **Using BPA-Free Cans**  
A brand was classified as *using BPA-free cans* if it reported using no BPA in any of its canned products.
- **Using BPA-Free Cans for Some Products**  
A brand was classified as *using BPA-free cans for some products*<sup>4</sup> if it had eliminated BPA from some but not all of its canned products. (See Appendix C for a list of products in this category.)
- **Using Cans With BPA**  
A brand was classified as *using cans with BPA* if none of its canned products are BPA-free.
- **Unclear**  
A brand was classified as *unclear*<sup>5</sup> if information was not available or the company-provided information was too limited to make a decisive judgment on BPA use.

<sup>3</sup> A more detailed explanation of the methods used to classify BPA status appears in Appendix A.

<sup>4</sup> Brands and companies reporting some BPA-free cans were asked to provide a list of specific products to support their claims.

<sup>5</sup> Brands and companies that either failed to respond to EWG’s queries or responded ambiguously, coupled with a BPA status that was either unclear or unavailable through their websites or social media feeds.

TABLE 1  
BEST COMPANY PLAYERS

Company	Brand
American Tuna, Inc.	American Tuna
Amy's Kitchen, Inc.	Amy's
Annie's, Inc.	Annie's Homegrown
Euro-USA Trading Co., Inc.	Bionaturae
Farmer's Market Foods, Inc.	Farmer's Market
Juanita's Foods	Juanita's
Jyoti Natural Foods	Jyoti Natural Foods
King Oscar AS	King Oscar
Lucini Italia Company	Lucini Italia
Raincoast Trading Company	Raincoast Trading
Sprouts Farmers Market, Inc.	Sprouts Farmers Market
The Hain Celestial Group, Inc.	Bearitos, Earth's Best Organic, Gluten Free Café (From Health Valley), Health Valley, Health Valley Organic, Imagine, Walnut Acres, Westbrae Natural
Tyson Foods, Inc.	Tyson

Source: Environmental Working Group, from data collected in EWG market survey and analysis, 2014

\*\* Disclaimer. The conclusions and findings that appear on this page reflect EWG's research at the time of publication stated above. In light of evolving market conditions, subsequent product reformulations, and other factors, they may no longer be current. EWG makes no representations or warranties about any of the products that may appear on this page. EWG hereby disclaims all warranties with regard to any of the products that may appear on this page, including express, statutory, implied warranties of merchantability or fitness for a particular use.

Companies often have multiple brands. Brands belonging to one company sometimes have different BPA practices<sup>6</sup>.

Based on their products' combined BPA status, EWG then placed a select group of companies surveyed into one of four groupings: *Best Players*, *Better Players*, *Uncertain Players* and *Worst Players*.

### Best Players:

Companies with brands exclusively in the *using BPA-free cans* category<sup>7</sup>.

Based on EWG's analysis, the good news is that 31 brands and 21 companies are using BPA-free cans for at least one of their brands (Appendix D).

Only 13 companies, however, are using BPA-free cans for all their products and/or brands (Table 1).

Consumers can have confidence in the safer packaging of all products sold from these top-shelf makers.

- Amy's Kitchen, Inc. sets the gold standard. It uses BPA-free cans for its entire line of *Amy's* canned goods and makes this policy clearly known on its [website](#) (as of April 2015). It uses BPA-free labels and has provided some information about the alternatives it uses. The company has reported that its tests for BPA on its products with the new liner reveal a detection level of less than 1 part per billion, a reasonably rigorous standard that accounts for the likelihood that some food can test positive for BPA contamination, or the chemical can be introduced during processing.
- Another clear winner in this category is the Hain Celestial Group, an early adopter of BPA-free packaging. Hain Celestial owns *Bearitos*, *Earth's Best*, *Imagine*, *Walnut Acres* and *Westbrae Natural* brands.

<sup>6</sup> Thirteen companies have some differences in BPA status across their brands and were therefore not included in the tally of companies with a consistent BPA status for all of its brands. They are listed in detail in Appendix E.

<sup>7</sup> Companies that conducted their own can testing, and provided a limit of detection that EWG deemed unreasonably high, were not eligible for the *Best Players* list.

- King Oscar AS, which sells seafood in BPA-free tins under the *King Oscar* label, is another champion. According to its [Facebook page](#), it independently tests its tins “to assure they are indeed BPA-free” (King Oscar 2014).
- Sprouts Farmers Market, Inc. shines as the only supermarket chain in our survey to offer a complete line of BPA-free canned goods, with no exceptions, under its own private label, (*Sprouts Farmers Market*).
- Other *Best Players* with excellent disclosure of their BPA-free status on their company websites include [American Tuna, Inc.](#), [Euro-USA Trading Co., Inc.](#), [Farmer’s Market Foods, Inc.](#), [Lucina Italia Company](#) and [Raincoast Trading Company](#).
- Rounding off our *Best Players* list are Annie’s, Inc., Juanita’s Foods, Jyoti Natural Foods and Tyson Foods, Inc. All reported using only BPA-free cans for all canned items.

## Better Players:

Companies *using BPA-free cans for some of its brands and/or products.*

This category spans a wide range of companies, from those that converted to *using BPA-free cans* for all but a single product type to those that converted just a small fraction of their canned offerings. A total of 34 brands belonging to 26 companies are using BPA-free cans for some of the line. Of these, 20 responded to our request for specific product information or had a publicly available list online. Another 15 companies reported using BPA-free cans for some types of products for every one of its brands. They provided, at a minimum, food category lists – all canned tomatoes, all canned beans, etc. Some brands went a step further, providing complete lists of full product names.

Eden Foods deserves honorable mention for its pioneering work to develop its signature BPA-free oleoresin lining. Eden also rates high for transparency. It acknowledges on its [website](#) (as of April 2015) that it uses an epoxy-based lining in its canned tomato products.

Another standout, Natural Value, Inc., has transitioned the majority of its products to BPA-free packaging. Natural Value provided EWG on April 21, 2014 with UPC codes for all of its 44 BPA-free, *Natural Value* canned items<sup>8</sup> (See Appendix C). In contrast, other companies merely indicated that some of their products were in BPA-free cans but did not identify the products or categories.

- Aldi Nord’s *Trader Joe’s* brand packs all of its tomatoes, chicken and beef, most of its fruit, vegetables and beans and some of its soups and seafood in BPA-free cans. *Trader Joe’s website* (as of April 2015) clearly distinguishes which of its products are packaged in BPA-free linings and which have not yet transitioned.
- Whole Foods Market told EWG it uses BPA-free cans for all of its *365 Everyday Value* canned tomatoes, fish, coconut milk and pumpkin, as well as all *365 Organic Everyday Value* canned vegetables.
- *Wegmans* brand, from Wegmans Food Markets, Inc., earned good marks for its sizable list of BPA-free canned fruit and vegetable products and for the prominent BPA message on its [website](#) (accessed April 2015).
- Another company with superior customer communications is Crown Prince, Inc., which owns *Crown Prince*, *Crown Prince Natural* and *Ocean Prince* brands. The majority of its canned products use a non-BPA lacquer lining. Its message comes across consistently (as of April 2015) on its “BPA Free Cans” [web page](#), in the individual product descriptions on its website and on the products themselves. The company provided EWG with UPC codes.
- Seneca Foods Corp., whose *Read* and *Seneca* brands use BPA-free cans exclusively, is making great progress. Its *Libby’s* brand uses BPA-free cans for most vegetables but reported to EWG (in August 2014) that it had not yet adopted BPA-free cans for all products. Seneca Foods

<sup>8</sup> Information provided by Natural Value, Inc. regarding its coconut water and pet food is not included in this figure.



deserves bonus points for providing the year that its BPA-free cans went on the market and helpful instructions on how to decipher the can coding system that identified the year.

At the lower end of the *Better Players* spectrum,

- ConAgra Foods, Inc.\* reported on January 22, 2014 using BPA-free cans for some products in only one of its 13 brands – Hunt’s.
- Del Monte Foods, Inc. told EWG on August 13, 2014 it used BPA-free cans for some products in its *College Inn*, *Contadina* and *S&W* lines.
- General Mills reported on January 19, 2014 and September 4, 2014 using BPA-free cans for its *Muir Glen* brand but not for its *Green Giant*, *Old El Paso* and *Progreso* lines.

## Uncertain Players:

Some 109 brands marketed by 54 companies did not make clear whether they were using BPA in their cans. Thirty-two of the 54 companies did not respond to EWG’s requests for information.

Some 22 companies responded or had website information available but failed to clearly communicate their cans’ BPA status. A number were unwilling to respond to what they deemed a too-broad inquiry. Some refused to say definitively whether some of their products had shifted to BPA-free cans unless EWG provided specific product names or lot codes identifying a particular batch of cans.

The reason typically given was that the brand or company contracts with hundreds of suppliers to produce and package its products, and the suppliers obtain their cans independently. Some companies said that some products may have multiple suppliers, and they would need specific product information to determine the supplier for any particular product. In particular:

- A spokesperson for Wal-Mart’s *Great Value* brand told EWG on July 31, 2014 that the company could only give information by telephone on a product-by-product basis, with

a limit of three products per call, and it would need to know what store the product came from. Its website (accessed May 2015) has no information on BPA in canned food.

- Supervalu, Inc., parent company for the brands *Carlita*, *Cowboy Billy’s*, *Del Pino’s*, *Essential Everyday*, *Shop ‘N Save*, *Wild Harvest Organic* and *Shopper’s Value*, said on August 1, 2014 it would need to know the brand name, product type, product UPC and product lot in order to respond to EWG’s query.

A consumer trying to figure out whether a product has a liner with BPA will find that information difficult to come by and may have to buy the product first.

Many companies reported some progress in making a transition to BPA-free cans, but some were more cooperative than others in quantifying that progress and providing clear, measurable data.

For instance, in an email responding to EWG’s specific inquiry about Kraft Foods Group’s<sup>9</sup> *Taco Bell* brand, the company said only that it uses “an interior epoxy coating with trace amounts of BPA” in “some of (its) products packaged in metal cans.” It did not say whether this included *Taco Bell* products (K. McMiller, personal communication, August 7, 2014).

B&G Foods, Inc., responding to EWG’s query about its *Ortega* brand and six of its other brands, wrote in an email that, “Most of the cans and plastic packaging B&G Foods, Inc. uses do contain BPA” (B&G Foods consumer affairs representative, personal communication, January 23, 2014).

Campbell Soup Company responded: “We’ve already started using alternatives to BPA in some of our soup packaging, and we’re working to phase out the use of BPA in the linings in all our canned products... We currently have millions of non-BPA cans in the market” (Campbell Soup Company

<sup>9</sup> Communication with Kraft Foods Group, Inc. occurred prior to its merger with the Berkshire Hathaway, Inc. and 3G Capital consortium-owned, Heinz.

\* In June 2015, ConAgra Foods informed EWG that it has made substantial progress removing BPA from its product packaging portfolio, with plans to complete its transition to BPA alternatives by the end of July 2015.

representative, personal communication, August 6, 2014). Campbell Soup Company markets canned products under its *Campbell's*, *Pace*, *Swanson*, *V8* and *SpaghettiOs* brands. The *Campbell's* brand has at least four lines of canned soups: *Condensed Soups*, *Chunky*, *Healthy Request* and *Homestyle*. EWG pressed for clarification as to which of its brands and products use BPA-free cans, but the company did not respond further.

Other companies that ignored EWG's inquiries and provide no relevant information on their websites were Ahold USA, Aldi US, Albertson's, LLC, Associated Wholesale Grocers, Rite Aid Corp., Roundy's Supermarkets, Inc., Del Haize America, Panos brands, Teasdale Foods, IGA, Inc. and Food Lion, LLC – companies with broad reach and multiple brands. However, some companies among the *Uncertain Players*, including Allens, Inc.<sup>10</sup> and The Kroger Co., are making at least some effort. Allens, Inc. said on January 23, 2014 it was commercially testing a non-epoxy lining but did not identify exact retail markets, brands, or products. Consumers who purchase the brands *Allens*, *Butterfield*, *Freshlike*, *Sugary Sam*, *Trappey's*, *Veg-All*, *Popeye Spinach*, *Princella* or *Royal Prince* would have no way to know for certain whether their cans were part of the trial. Although The Kroger Co. did not provide details on the extent of their use of BPA-free cans, Kroger's [website](#) (accessed April 2015) indicated that it was working on the issue. These two companies, and others, have given various reasons for not shifting more quickly to BPA-free cans, including:

- Suppliers and manufacturers are still researching suitable substitutes.
- Alternatives must pass regulatory approval.
- New linings must meet strict freshness, preservation and quality standards and require testing throughout a product's entire shelf life.
- Flavor concerns have arisen with some alternatives.
- There are no acceptable BPA replacements for high-acid foods such as tomatoes and some

10 Communication with Allens, Inc. occurred prior to its acquisition by Sager Creek Acquisition Corp. and subsequent name change to Sager Creek Vegetable Company.

fruits and seafood.

- BPA-free cans are in short supply in some countries where products are packed.
- The limited stock of BPA-free cans leaves some companies at a purchasing disadvantage.
- The higher cost of alternatives makes it difficult to offer moderately priced products.

## Worst Players:

Companies with brands in the *using cans with BPA* category exclusively.

In its analysis, EWG identified 78 brands (31 percent of the total survey) that still use cans lined with BPA (See Appendix B). These brands are marketed by 35 companies (29 percent of the total). Some 27 companies (23 percent) use BPA cans in all their brands or products and receive special placement on our *Worst Players* list (Table 2).

- Hormel Foods Corp. has seven brands on EWG's list and a 50 percent stake in another four brands.<sup>11</sup> None are using BPA-free cans.
- All five of Pinnacle Foods Group, LLC's brands, including *Armour*, *Brooks*, *Duncan Hines Comstock*, *Duncan Hines Wilderness*, and *Nalley*, use BPA-based cans.

The majority of brands and companies in the *using cans with BPA* category indicated that they are sensitive to consumer concerns and demand for BPA alternatives, aware of the evolving science and tracking potential changes to FDA's or international food safety regulations, but fewer than half showed signs of making a prompt change. Some tout their removal of BPA in other products, including baby and toddler supplies, plastic shopping bags, paper receipts and frozen meal trays, but they still use the chemical for can linings.

Most provided no timeline for action. Some 18 companies representing 42 brands reported that they had begun to research or test alternatives with

11 MegaMex Foods, LLC is a Joint Venture Between Hormel Foods Corporation and Herdez del Fuerte, S.A. de CV.

TABLE 2

**WORST PLAYERS**

Company	Brand
Andre Prost, Inc.	A Taste of Thai, Coconut Milk by Andre Prost, Inc.
Bell-Carter Foods, Inc.	Lindsay Olives
Bookbinder's Foods, Inc	Bookbinders Specialties
Bruce's Foods Corporation	Bruce's, Casa Fiesta
Bush Brothers & Company	Bush's
Cento Fine Foods	Cento
Chincoteague Seafood, Inc.	Chincoteague Seafood Brand, Gordon's Chesapeake Natural
Culinary Collective	Matiz Gallego
Hormel Foods Corporation	Dinty Moore, Hormel, Hormel Chili, Peloponnese, Spam, Stag Chili, Valley Fresh
Knouse Foods Co-operative, Inc.	Lucky Leaf, Musselman's
Look's Gourmet Food Company, Inc.	Bar Harbor
Mario Camacho Foods	Mario
McCormick & Company, Inc.	Simply Asia, Thai Kitchen
MegaMex Foods, LLC	Chi-Chi's, Embasa, Herdez, La Victoria
Musco Family Olive Company	Early California, Pearls
National Fruit Product Co.	White House Foods
Nestlé USA	Carnation, Libby's Pumpkin
Ocean Spray Cranberries, Inc.	Ocean Spray
Oregon Fruit Products	Oregon Specialty Fruit
Pea Soup Andersen's	Andersen's
Pinnacle Foods Group, LLC	Armour, Brooks, Duncan Hines Comstock, Duncan Hines Wilderness, Nalley
Rao's Specialty Foods, Inc.	Rao's Homemade
Red Gold, Inc.	Red Gold, Red Pack, Sacramento, Tuttorusso
Sokol & Company, Inc.	Solo Foods
Target Corporation	Market Pantry
The J.M. Smucker Company	Eagle Brand, Magnolia, PET
Topco Associates, LLC	Clear Value, Dining Out, Food Club, Full Circle, Valu Time, World Classics

Source: Environmental Working Group, from data collected in EWG market survey and analysis, 2014

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suppliers or were working to reduce or eliminate BPA from their packaging. But 17 companies with 36 brands made no reference to progress on this front.

- J.M. Smucker Co. said that its *Eagle Brand*, *Magnolia* and *PET* canned milk brands contain BPA in amounts “within the limit approved by the FDA” (J.M. Smucker Co. customer service relations, personal communication, January 15, 2014).
- Topco Associates, LLC, parent company to the *Clear Value*, *Dining Out*, *Valu Time*, *World Classics*, *Full Circle* and *Food Club* brands, wrote: “The industry is actively researching alternative applications for can linings. In the meantime, we understand the concern over this particular application, and we continue to monitor the issue closely to assure that all of our packaged foods are in compliance with government regulations and industry standards” (Topco Associates, LLC consumer services team, personal communication, January 17, 2014).
- Target Corp., parent to the *Market Pantry* brand, responded: “Today’s standard metal food can liner contains a small amount of BPA. This particular metal can liner is commonly found within can products sold across the retail food industry. The Target owned brand food manufacturers have guaranteed Target that food products and their containers adhere to all FDA food safety requirements” (Target Corp. guest relations, personal communication, January 29, 2014).

## WHAT DOES BPA-FREE MEAN?

EWG’s survey yielded only fragmentary information on the types of substitute can linings being adopted by food companies. Only a handful of companies or brands disclose the alternatives they are using, and the descriptions are vague. Here is a sample:

- Farmer’s Market Foods, Inc. (*Farmer’s Market*): Confirms information it provided to Madison, WI – based, [Willy Street Co-op](#) on September

24, 2012, that “it’s a polymer liner that complies with FDA regulations.” *Sprouts Farmers Market, Inc. (Sprouts Farmers Market)*: “Vinyls, polyester, and oleoresins” either in combination or alone. August 7, 2014

- Lakeside Foods – Private brand supplier for [Natural Value, Inc. \(Natural Value\)](#): Either “heavy single coat vinyl; single coat white modified vinyl; grey modified polyester base coat, clear modified polyester top coat; grey vinyl base coat, grey vinyl top coat; single coat modified polyester; or vinyl organosol liquid” depending on the can type.
- Annie’s, Inc. (*Annie’s Homegrown*): “Modified polyester material.” March 27, 2014
- Bumble Bee Foods, LLC (*Beach Cliff*, *Bumble Bee*, *Wild Selections*): “Blend of vinyl and polyester resins.” January 14, 2014
- Chicken of the Sea International (*Ace of Diamonds*, *Chicken of the Sea*, *Genova*): “Organisol polyester vinyl lining.” August 22, 2014
- The Hain Celestial Group, Inc. (pertaining to [Westbrae Natural](#)): “It is a type of food grade epoxy – it’s the simplest earth friendly coating available.”
- Edward & Sons Trading Co. (*Native Forest*): “It will vary from product to product, but most use a epoxy-based lacquer or a titanium dioxide-based lining.” February 5, 2014

The standout exception is Eden Foods, which is the most transparent with regard to its non-corn-based oleoresin liners: “Eden Organic Beans are packed in steel cans coated with a baked-on oleoresinous c-enamel that does not contain the endocrine disrupter chemical, bisphenol-A (BPA). Oleoresin is a natural mixture of an oil and a resin extracted from various plants, such as pine or balsam fir.” (Eden Foods 2014).

Given its expense, it’s not surprising that oleoresin hasn’t caught on more widely for low-acid foods. According to one figure, the use of oleoresin<sup>12</sup> could

<sup>12</sup> Oleoresin may not be a suitable alternative for use with some high acid food types.

increase the manufacturing cost by 21-34 percent per can (Eden Foods 2014).

As industry scrambles to find alternatives to BPA, concern has grown that without appropriate oversight, food companies will substitute structurally similar chemicals, or new chemicals with toxicity profiles equal to or worse than BPA. The FDA reviews applications for new chemicals in food packaging but has very little information about them. And since it has limited authority to regulate chemicals that were in use before 2000, BPA-free cans may be made from chemicals that have not been properly studied for long-term health effects.

In addition to BPA, other bisphenol-type chemicals have been detected in foods, including canned food. These include bisphenol A diglycidyl ether (BADGE), bisphenol F, bisphenol F diglycidyl ether (BFDGE) and bisphenol B. The most comprehensive study of American food was conducted by Chunyang Liao and Kurunthachalam Kannan of SUNY Albany in 2013 (Kannan and Liao 2013). The researchers tested 267 U.S. food samples packaged in metal cans, glass jars and cardboard and found BPA and related chemicals in many of them. Canned foods had the highest concentrations of bisphenols, with concentrations generally between 1 and 100 parts per billion. Food sold in non-metal packaging generally had less than 1 part per billion of any bisphenol. BPA was the most common chemical detected in all food types, but bisphenol F and bisphenol S were detected in many food samples, generally in lower concentrations.

An earlier study showed that BPS was as disruptive to hormone signaling as BPA and as the human estrogen estradiol. The research suggested that exposure could lead to altered cell growth and death (Viñas and Watson 2013). These findings contradicted oft-heard assertions that BPA and BPS were “weak estrogens.”

Due to their chemical structures many bisphenol chemicals have been presumed to have some hormone-disrupting potential. (Rosenmai and Pedersen 2014). A study by University of Calgary scientists found that *in utero* exposure to BPS (detectable in 81 percent of the U.S. population) might lead to neurodevelopmental disorders later

in life. The researchers found that doses of BPS in zebrafish embryos that were a thousandth of the accepted human daily exposure led to a 240 percent increase in abnormal growth of brain cells. The authors suggested that male hormones might be particularly disturbed by this abnormal cell development (Kinch 2015).

Last year, the EPA published a report indicating that many replacement chemicals would likely have a similar risk profile to BPA (EPA 2014). That federal law does not require chemicals to be thoroughly tested (or tested at all) before they go on the market is a serious flaw in the nation’s chemical safety laws.

## COMPANIES DO NOT GENERALLY LABEL THEIR BPA-FREE CANNED FOOD PRODUCTS

Many companies informed EWG that they no longer used BPA-based metal cans, but they have not publicized this information. Some companies such as Amy’s Kitchen, Inc., Euro-USA Trading Co., Inc., Farmer’s Market Foods, Inc., Natural Value, Inc. and Crown Prince, Inc. use can labels that say “BPA-free.” Blue Marble Brands’ *Field Day* brand pledges on its [website](#) (accessed April 2015) to identify its BPA-free products on the label when it switches to BPA-free packaging. Faribault Foods, Inc. reports on [Facebook](#) that new labels for its *S&W Beans*’ organic beans were expected to come on the market May 2013.

One problem is that regulatory or industry-wide accountability measures do not exist to ensure that BPA-free labeling is credible. Companies are free to claim that their cans are BPA-free, armed with little more than certificates and assurances from their suppliers. In some cases, companies may believe they are buying BPA-free cans, but when independently tested, these cans are discovered not to be BPA-free (Hannah Stonecypher, personal communication, February 5, 2014; Vital Choice Wild Seafood & Organics, Inc. 2015; Consumer Reports 2009b), demonstrating the need for oversight.

Some companies define BPA-free loosely.

Independent testing has found BPA in supposedly BPA-free cans in amounts ranging from less than 1.0 ppb to 200 ppb – the high range of BPA concentration commonly found in canned foods (Amy’s 2015, Hannah Stonecypher, personal communication, February 5, 2014).

A BPA-free label cannot mean that zero BPA will be detected in the food sample. Some BPA is found in food packaged in glass or cardboard containers (Kannan and Liao 2013) perhaps introduced during packaging or contaminating the ingredients themselves. However, a BPA-free label should mean that minimal amounts of BPA will be found in the food.

Maryland set a limit of no more than 0.5 parts per billion of BPA in baby formula, which would be ideal. BPA concentrations in food in glass or cardboard rarely exceed 1 part per billion, so this is an achievable limit.

## RECOMMENDATIONS

### For policy makers

- The FDA, EPA, European Food Safety Authority and other international regulatory bodies should determine a safe level of exposure that takes into consideration the scientific evidence of BPA’s toxicity at low doses.
- The permissible level of BPA in canned food should be no greater than 1 part per billion. These agencies should regulate labeling to ensure that it conforms to this limit.
- The FDA should re-examine all food contact substances for safety and facilitate development of new, safer alternatives as food producers work to restore public confidence in canned products. The agency must consider adverse health effects from low-dose exposures, effects on sensitive populations and aggregate exposures from various sources.
- Congress should give the FDA authority to review food packaging chemicals approved before the year 2000, as the agency requested in 2010.
- Congress should act to reform the Toxic

Substances Control Act so that the EPA is better able to take timely, meaningful action to get problematic chemicals off the market.

### For food companies and can suppliers

EWG recognizes and applauds efforts that many food companies are making to remove BPA from food packaging – especially in the absence of government guidance or a federal BPA standard for canned food. However the industry as a whole must move faster. All along the supply chain food producers should harness their collective bargaining power to stimulate increased production of BPA-free materials.

EWG encourages companies that have adopted BPA-free cans for some or all of their products to have the linings independently tested to verify the certificates and claims of their suppliers, using a robust limit of detection of no higher than 1 part per billion. This would provide adequate assurance that the can lining was not manufactured with BPA and that any BPA present is only a result of the chemical’s ubiquitous presence in the environment.

Consumers want clear and unambiguous information before they buy. Companies should inform their customers of their progress toward using only BPA-free cans, allowing the public to decide what companies and brands to buy.

### For consumers

EWG recommends that people limit or avoid canned food. If you purchase canned foods, select one of the brands that uses a BPA-free can liner. Ask the company about the safety of the materials used as a replacement.

We urge pregnant woman and children to take special care to avoid eating food packaged in BPA epoxy cans. It can be difficult to avoid eating some canned food when dining out but worth the effort to make the switch at home.

The following steps can reduce the risk of BPA exposure:

- Substitute fresh, frozen, or dried food for canned.

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- Purchase food in alternative packaging, such as glass.
  - For those who cannot avoid BPA epoxy can linings, rinsing canned beans, fruit, and vegetables in water may help lower the level of BPA in the food.
  - Never heat food in the can.
  - Choose canned foods from EWG's *Best Players* or *Better Players* lists of brands and companies that attest to using BPA-free linings in all or some of their canned products. Search [EWG's Food Scores](#) for specific products.

Consumers who want to avoid BPA in canned food or want to see more of their favorite brands and varieties available in cans without BPA need to do their homework – and take action.

- Contact the company and ask for the BPA status of its product if it's not already publicly disclosed. Urge companies that say or imply that they are shifting to BPA-free packaging to post frequent updates on their progress on their websites and through social media.
- Demand that companies disclose what's in their can linings. Companies need to hear from consumers that they will no longer buy products with BPA epoxy can linings or substitute linings that may pose an equal or worse threat.

## APPENDIX A:

### METHODOLOGY

Information was gathered on products captured by [LabelINSIGHT®](#) between July 2013 and July 2014, representing a sample of the products sold in metal cans that were available to U.S. shoppers in that period. Brands were selected if they either currently offer canned food or still have canned food stock available on grocery store shelves as of July 2014, according to LabelINSIGHT® data.

For uniformity, this survey focused on cylindrical or rectangular steel, steel-tin, or “tin” cans – as they are known. Most aluminum beverage containers in the U.S. are also thought to be manufactured with some BPA in the linings, but according to the FDA they have “thinner coatings” and “are not thermally processed in the same manner as food cans” (FDA 2008). High levels of BPA have been reported in coffee- and tea-containing cans (FAO/WHO 2011), but beer, sodas and other beverages in aluminum cans are believed to be among those with the lowest levels of BPA (Cao 2010). Brands using these types of cans were excluded from the survey.

Products packaged in paperboard cans or composite plastic containers with easy-open peel-back lids – whose membranes have been known to be produced using BPA (McMiller 2014, Consumer Reports 2009b), were also excluded.

Commercial-size products were included if a company provided information on them, but EWG did not seek out these products or brands.

Some brands and companies cited particular obstacles to shifting to BPA-free cans because of the nature of the foods they sell. EWG did not provide special consideration for companies and brands selling acidic foods such as fruit, shellfish or tomatoes when comparing them to brands and companies that do not specialize in these types of foods.

EWG took companies at their word with regard to BPA use. EWG did not request independent test

results or certificates from suppliers, nor did we commission our own testing to validate the claims of brands and companies.

EWG recognizes that there is no such thing as being truly “BPA-free,” given the ubiquity of BPA in air, water and dust. We interpret the term to mean that BPA was not intentionally added during the manufacturing of the can lining. Companies that reported using “non-intent” cans were considered to be using BPA-free cans, on the understanding that the can lining was not intentionally manufactured with BPA.

Companies that reported using BPA-free cans while also reporting either a level of BPA or a detection limit that EWG believes is not in line with our recommendations are noted in Appendix B.

Companies that reported using BPA-free cans for some products were listed as such if they could confirm the relevant brand(s). If a company refused or was unable to provide specific product names or broader product categories or boundaries and the information was not available on company websites, they were not listed in Appendix C. Product names in Appendix C consist of names or categories provided directly by the company or specific product lists identified from brand websites using company-provided general categories as a guide. Products listed in Appendix C that were pulled from company websites may not represent the full spectrum of products that brand currently has available in stores.

Companies that identified themselves as currently undergoing a partial market trial with BPA-free cans but would not say which markets, brands, or products were part of the trial were considered to be *using cans with BPA*.

Companies were classified as *unclear* under one of three circumstances: 1) They did not respond to our inquiry and had no corporate or brand website or social media pages allowing EWG to gauge BPA use. 2) The response was too vague to establish if they used BPA-free cans for some products, all products or none. 3) They reported offering some BPA-free products but refused to or could not identify in which specific brand or brands. These include companies that rely on independent suppliers and



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were unable to find out the nature of cans they use and companies who required EWG to provide specific product information, such as names and UPC codes, before they would provide a substantive response with regard to BPA use.

Companies that reported “trace amounts” of BPA in their cans were classified as *using cans with BPA* if they did not provide a quantifiable level of BPA to justify a different classification.

Companies that reported complying with FDA requirements for direct food contact coatings, or reported meeting compliance with levels “below” or “well below” FDA’s requirements, were classified as *using cans with BPA* if they did not provide a quantifiable level of BPA to justify a different classification.

Companies that reported complying with the European Union requirements for direct food contact coatings, or that reported complying with the European limit for BPA of 600 parts per billion, were classified as *using cans with BPA* because this level is much higher than the amount of BPA found in American canned food samples.

Products that were reported to use BPA-derived coatings only on the seams, lids, or lids and ends were considered to be *using cans with BPA*.

Brand ownership fluctuates rapidly with acquisitions and mergers, and EWG’s listing may not represent the most up-to-date company/brand relationships.

Details of company communications are available upon request.

## APPENDIX B: BPA STATUS BY BRAND AND BY COMPANY

Brand	Company	Using cans with bpa	Using bpa-free cans for some products	Using bpa-free cans	Unclear	Company provided notes
365 Everyday Value	Whole Foods Market IP. LP.		X			
365 Organic Everyday Value	Whole Foods Market IP. LP.		X			
A Taste of Thai	Andre Prost, Inc.	X				
Ace of Diamonds	Chicken of the Sea International			X		
Acme	Albertsons, LLC				X	No response
Albertsons	Albertsons, LLC				X	No response
Alessi	Vigo Importing Company, Inc.				X	
Allens	Allens, Inc.*				X	Reports “currently participating in a commercial retail market trial of non-epoxy can lining”, but declined to state for which of its brands or products this applies.
Always Save	Associated Wholesale Grocers, Inc.				X	No response
America’s Choice	The Great Atlantic and Pacific Tea Company, Inc.				X	No response
American Tuna	American Tuna, Inc.			X		

Amy's	Amy's Kitchen, Inc.		X		Reports "transitioned to cans using no BPA in the formulation of its liner...as of March 1, 2012" with BPA levels of its tested canned products at less than 1 ppb.
Ancel	Goya Foods, Inc.			X	
Andersen's	Pea Soup Andersen's	X			
Annie's Homegrown	Annie's, Inc.		X		
Armour	Pinnacle Foods Group, LLC	X			
Aunt Penny's	Teasdale Foods, Inc.			X	No response
B&M	B&G Foods, Inc.			X	
Baker's Corner	Aldi, Inc.			X	
Bar Harbor	Look's Gourmet Food Company, Inc.	X			
Beach Cliff	Bumble Bee Foods, LLC		X		
Bearitos	The Hain Celestial Group, Inc.		X		
Best Choice	Associated Wholesale Grocers, Inc.			X	No response
Bionaturae	Euro-USA Trading Co., Inc.		X		
Bookbinders Specialties	Bookbinders Foods, Inc	X			
Brad's Organic	First International Health Foods, Ltd.			X	No response
Brook's	Pinnacle Foods Group, LLC	X			
Bruce's	Bruce's Foods Corporation	X			
Bumble Bee	Bumble Bee Foods, LLC		X		

Bush's	Bush Brothers & Company	X		
Butter Kernel Vegetables	Faribault Foods, Inc.		X	No response
Butterfield	Allens, Inc.*		X	Reports "currently participating in a commercial retail market trial of non-epoxy can lining", but declined to state for which of its brands or products this applies.
Campbell's	Campbell Soup Company		X	Company using BPA-free cans for some products but declined to state for which of its brands or products this applies.
Caribe	Caribe Food Trading Corporation		X	No response
Carlita	Supervalu, Inc.		X	
Carnation	Nestlé USA	X		
Casa Fiesta	Bruce's Foods Corporation	X		
Castleberry's	Aunt Kitty's Foods, Inc.		X	No response
Cento	Cento Fine Foods	X		Reports "the average value of BPA used in our tomato cans is 8 parts per billion".
Centrella	Central Grocers, Inc.		X	No response
Chata	Culinary Hispanic Foods, Inc.		X	No response
Chef Boyardee	ConAgra Foods, Inc.	X		
Chi-Chi's	MegaMex Foods, LLC†	X		
Chicken of the Sea	Chicken of the Sea International		X	Reports BPA-free can suppliers since 2009.
Chilli Man	Faribault Foods, Inc.		X	No response

Chincoteague Seafood Brand	Chincoteague Seafood, Inc.	X		
Clear Value	Topco Associates, LLC	X		
Clearly Organic	Associated Wholesale Grocers, Inc.			X No response
Coconut Milk by Andre Prost, Inc.	Andre Prost, Inc.	X		
College Inn	Del Monte Foods, Inc.		X	Reports using BPA-free cans for approximately 10% of its College Inn brand products, but declined to state for which of its College Inn products this applies.
Conchita	Conchita Foods, Inc.			X No response
Contadina	Del Monte Foods, Inc.		X	Company using BPA-free cans for some products but declined to state for which of its Contadina products this applies.
Cowboy Billy's	Supervalu, Inc.			X
Crown Prince	Crown Prince, Inc.		X	Reports "several countries from which we import are strongly influenced by European Union (EU) standards".
Crown Prince Natural	Crown Prince, Inc.		X	Reports "several countries from which we import are strongly influenced by European Union (EU) standards".
Del Monte	Del Monte Foods, Inc.	X		
Del Sol	Del Sol Food, LLC			X No response
Del Pino's	Supervalu, Inc.			X

Dell' Alpe	Rubinelli, Inc.			X	No response
Dennison's Chili	ConAgra Foods, Inc.	X			
Dining Out	Topco Associates, LLC	X			
Dinty Moore	Hormel Foods Corporation	X			
Dole	Itochu Corporation		X		Reports "using BPA-free cans in virtually all its current products, including all those sold in North America". Dole declined to provide a list of products sold outside of North America for which the cans might not be BPA-free (if any).
Don Pepino	B&G Foods, Inc.			X	
Duncan Hines Comstock	Pinnacle Foods Group, LLC	X			
Duncan Hines Wilderness	Pinnacle Foods Group, LLC	X			
Dynasty	JFC Brands			X	
Eagle Brand	The J.M. Smucker Company	X			
Early California	Musco Family Olive Company	X			
Earth's Best Organic	The Hain Celestial Group, Inc.			X	
EarthPure	Neil Jones Food Company			X	

Eden	Eden Foods, Inc.		X		Reports using BPA-free cans (since April 1999) for its bean, rice & bean, re-fried bean, and chili products. Some tomato products are in "epoxy based" cans showing BPA in the "non-detectable range" based on a detection limit of 5 ppb.
El Mexicano	Marquez Brothers International, Inc.			X	No response
Embasa	MegaMex Foods, LLC†	X			
Emilio's	Teasdale Foods, Inc.			X	No response
Essential Everyday	Supervalu, Inc.			X	
Farmer's Market	Farmer's Market Foods, Inc.		X		Reports "began incorporating the BPA-Free liners back in July 2011".
Field Day	Blue Marble Brands	X			
First Street	Smart & Final, Inc.		X		
Food Club	Topco Associates, LLC	X			
Food Lion	Food Lion, LLC			X	No response
Fresh & Easy	Fresh & Easy, LLC		X		
Freshlike	Allens, Inc.*			X	Reports "currently participating in a commercial retail market trial of non-epoxy can lining", but declined to state for which of its brands or products this applies.
Full Circle	Topco Associates, LLC	X			

Galil	Galil Importing Corporation			X	
Geisha	Kawasho Foods Corporation			X	
Genova	Chicken of the Sea International		X		
Giant	Giant Food Stores, LLC			X	No response
Glory Foods	Glory Foods, Inc.			X	
Gluten Free Café (From Health Valley)	The Hain Celestial Group, Inc.		X		Reports "conversion of steel cans to those with non BPA linings will be completed by June 2014 for our canned Health Valley® soups".
Gordon's Chesapeake Natural	Chincoteague Seafood, Inc.	X			
Goya	Goya Foods, Inc.	X			
Great Value	Wal-Mart Stores, Inc.			X	
Green Giant	General Mills, Inc.	X			
Guaranteed Value	Ahold USA			X	No response
Hanover	Hanover Foods Corporation			X	No response
Health Valley	The Hain Celestial Group, Inc.		X		Reports "conversion of steel cans to those with non BPA linings will be completed by June 2014 for our canned Health Valley® soups".
Health Valley Organic	The Hain Celestial Group, Inc.		X		Reports "conversion of steel cans to those with non BPA linings will be completed by June 2014 for our canned Health Valley® soups".
Healthy Choice	ConAgra Foods, Inc.	X			



Heinz	Berkshire Hathaway, Inc. and 3G Capital (Consortium)		X		
Henry & Lisa's Natural Seafood	EcoFish, Inc.		X		Company using BPA-free cans for some products. Reports "by January 2015, (its) new canned salmon (traditional style with skin and bones) will be BPA free also".
Herdez	MegaMex Foods, LLC†	X			
Hershey's	The Hershey Company				X
Hime	JFC Brands				X
Hormel	Hormel Foods Corporation	X			
Hormel Chili	Hormel Foods Corporation	X			
Hunt's Manwich	ConAgra Foods, Inc.	X			
Hunt's Tomatoes	ConAgra Foods, Inc.		X		
IGA	IGA, Inc.				X No response
Imagine	The Hain Celestial Group, Inc.		X		Reports "canned soups‡ transitioned to non-BPA linings in the Fall of 2012".
Jewel	Albertsons, LLC				X No response
Joan of Arc	B&G Foods, Inc.				X
Juanita's	Juanita's Foods		X		
Jyoti Natural Foods	Jyoti Natural Foods		X		
Kame	Panos Brands				X No response
Key Food	Key Food Store Co-operative, Inc.				X No response
King Oscar	King Oscar AS		X		

Kirkland Signature	Costco Wholesale Corporation		X	
Krasdale	Krasdale Foods, Inc.			X No response
Kroger	The Kroger Company			X
Kuner's	Faribault Foods, Inc.			X No response
La Choy	ConAgra Foods, Inc.	X		
La Costeña	Arizona Canning Company, LLC			X
La Preferida	La Preferida, Inc.		X	
Las Palmas	B&G Foods, Inc.			X
La Squisita	La Squisita Foods, LLC			X No response
La Victoria	MegaMex Foods, LLC†	X		
Libby's Meats	ConAgra Foods, Inc.	X		
Libby's	Seneca Foods Corporation		X	
Libby's Pumpkin	Nestlé USA	X		
Lindsay Olives	Bell-Carter Foods, Inc.	X		Reports its cans comply with European Union Standards of 600 ppb BPA for migration into food.
Lucini Italia	Lucini Italia Company			X
Luck's	Arizona Canning Company, LLC			X
Lucky Leaf	Knouse Foods Cooperative, Inc.	X		
Magnolia	The J.M. Smucker Company	X		
Manischewitz	The Manischewitz Company	X		
Margaret Holmes	McCall Farms, Inc.			X No response

Marie Calender's	ConAgra Foods, Inc.	X		
Mario	Mario Camacho Foods	X		Reports its cans comply with European Union Standards of 600 ppb BPA and 100 ppb BADGE for migration into food.
Market Pantry	Target Corporation	X		
Martin's	Ahold USA			X No response
Matiz Gallego	Culinary Collective	X		Reports its cans comply with European Union Standards of 600 ppb BPA for migration into food.
Mediterranean Organic	Blue Marble Brands			X No response
Mrs. Grimes	Faribault Foods, Inc.			X No response
Muir Glen	General Mills, Inc.		X	Reports "all tomato products under the Muir Glen brand transitioned to BPA-free can lining with the fall 2010 tomato harvest". Discontinued soup products have BPA liners.
Musselman's	Knouse Foods Cooperative, Inc.	X		
My Essentials	Food Lion, LLC			X No response
Nalley	Pinnacle Foods Group, LLC	X		

Native Forest	Edward & Sons Trading Company, Inc.		X	Edward & Sons “direct(s) (its) packing facilities to select cans with no detectable levels of BPA.” Third party testing by company of “cans selected at random from (its) inventory” “showed no BPA detected” for some cans¶. The limit of detection for BPA with this analysis was 200 ppb.(Edward & Sons Trading Co., Inc. 2014) EWG believes detection limit of 200 ppb is unreasonably high.		
Natural & Organic	Del Haize America			X	No response	
Nature’s Promise	Ahold USA				X	No response
Natural Directions	ND Foods, Inc.					X
Natural Sea	Blue Marble Brands					X
Natural Value	Natural Value, Inc.					X
Neptune	Ocean Beauty Seafood		X			
O Organics	Safeway, Inc.					X
Ocean Prince	Crown Prince, Inc.					X
Ocean Spray	Ocean Spray Cranberries, Inc.		X			
						Company reports, “the cans used to package (its) canned products do contain a trace amount of BPA in the lining of the can.” Company also reports “no detectable levels of BPA” found in its company-ordered, third party evaluation.
Olde Cape Cod	Cains Foods					X

Old El Paso	General Mills, Inc.	X		
Oregon's Choice Gourmet	Oregon's Choice Gourmet		X	
Oregon Specialty Fruit	Oregon Fruit Products	X		
Oregon Trail	Neil Jones Food Company		X	Reports using BPA-free cans for retail product line. Foodservice products are not yet in BPA-free cans, and are not sold directly to the general public.
Ortega	B&G Foods, Inc.			X
Pace	Campbell Soup Company			X
				Company using BPA-free cans for some products but declined to state for which of its brands or products this applies.
Pasta Select	Faribault Foods, Inc.			X
				No response
Pearls	Musco Family Olive Company	X		
Pelopponese	Hormel Foods Corporation	X		
PET	The J.M. Smucker Company	X		
Pillar Rock	Ocean Beauty Seafood		X	
Popeye Spinach	Allens, Inc.*			X
				Reports "currently participating in a commercial retail market trial of non-epoxy can lining", but declined to state for which of its brands or products this applies.
Port Clyde	Ocean Beauty Seafood		X	
				Reports using BPA-free tins as of mid-2012.
Pride	Faribault Foods, Inc.			X
				No response

Princella	Allens, Inc.*			X	Reports "currently participating in a commercial retail market trial of non-epoxy can lining", but declined to state for which of its brands or products this applies.
Private Selection	The Kroger Company			X	
Progresso	General Mills, Inc.	X			
Quality Guarantee	Del Haize America			X	No response
Raincoast Trading	Raincoast Trading Company		X		
Ralph's	The Kroger Company			X	
Ranch Style	ConAgra Foods, Inc.	X			
Rao's Home-made	Rao's Specialty Foods, Inc.	X			
Read	Seneca Foods Corporation		X		Reports using BPA-free cans beginning "in the 2013 pack year".
Red Gold	Red Gold, Inc.	X			
Red Pack	Red Gold, Inc.	X			
Rite Aid Pantry	Rite Aid Corp			X	No response
Rosarita	ConAgra Foods, Inc.	X			
Roundy's	Roundy's Supermarkets, Inc.			X	No response
Roundy's Organics	Roundy's Supermarkets, Inc.			X	No response
Ro-Tel	ConAgra Foods, Inc.	X			

Royal Prince	Allens, Inc.*			X	Reports "currently participating in a commercial retail market trial of non-epoxy can lining", but declined to state for which of its brands or products this applies.
Safeway	Safeway, Inc.			X	
Safeway Select	Safeway, Inc.			X	
S&W	Del Monte Foods, Inc.		X		
S&W Beans	Faribault Foods, Inc.		X		Reports it "switched all production of (its) S&W organic beans to the new can liner last year (2013)".
Sacramento	Red Gold, Inc.	X			
San Benito	Neil Jones Food Company		X		Reports using BPA-free cans for retail product line. Foodservice products¶ are not yet in BPA-free cans, and are not sold directly to the general public.
San Benito Organic	Neil Jones Food Company		X		Reports using BPA-free cans for retail product line. Foodservice products¶ are not yet in BPA-free cans, and are not sold directly to the general public.
Sclafani	B&G Foods, Inc.			X	
Season Products	The Manischewitz Company		X		
Seneca	Seneca Foods Corporation			X	Reports using BPA-free cans beginning "in the 2013 pack year".
Shaw's	Albertsons, LLC			X	No response

Shop 'N Save	Supervalu, Inc.			X	
ShopRite	Wakefern Food Corporation			X	
Shopper's Value	Supervalu, Inc.			X	
ShurFine	Western Family Foods, Inc.			X	
Shur Saving	Western Family Foods, Inc.			X	
Simple Truth Organic	The Kroger Company			X	
Simply Asia	McCormick & Company, Inc.	X			
Simply Value	Smart & Final, Inc.			X	
SimplyNature	Aldi, Inc.			X	
Solo Foods	Sokol & Company, Inc.	X			
SpaghettiO's	Campbell Soup Company			X	Company using BPA-free cans for some products but declined to state for which of its brands or products this applies.
Spam	Hormel Foods Corporation	X			
Springfield	Unified Grocers			X	No response
Sprouts Farmers Market	Sprouts Farmers Market, Inc.				X
Stagg Chili	Hormel Foods Corporation	X			
Stop & Shop	Ahold USA			X	No response



Sugary Sam	Allens, Inc.*			X	Reports "currently participating in a commercial retail market trial of non-epoxy can lining", but declined to state for which of its brands or products this applies.
Sun Vista	Arizona Canning Company, LLC			X	
StarKist	Dongwon Enterprise Co., Ltd		X		
Swanson	Campbell Soup Company			X	Company using BPA-free cans for some products but declined to state for which of its brands or products this applies.
Taco Bell	Kraft Foods Group, Inc.§			X	
Teasdale	Teasdale Foods, Inc.			X	No response
Thai Kitchen	McCormick & Company, Inc.	X			
Trader Joe's	Aldi Nord		X		
Trappey's	Allens, Inc.*			X	Reports "currently participating in a commercial retail market trial of non-epoxy can lining", but declined to state for which of its brands or products this applies.
Tuttorusso	Red Gold, Inc.	X			
Tyson	Tyson Foods, Inc.			X	
Underwood	B&G Foods, Inc.			X	
Unger's	Unger, Israel			X	No response

V8	Campbell Soup Company			X	Company using BPA-free cans for some products but declined to state for which of its brands or products this applies.
Valley Fresh	Hormel Foods Corporation	X			
VanCamp's	ConAgra Foods, Inc.	X			
Valu Time	Topco Associates, LLC	X			
Veg-All	Allens, Inc.*			X	Reports "currently participating in a commercial retail market trial of non-epoxy can lining", but declined to state for which of its brands or products this applies.
Vigo	Vigo Importing Company			X	
Vital Choice	Vital Choice Wild Seafood & Organics, Inc.		X		Reports using cans without BPA, however it found "miniscule traces of BPA. . . in tests of foods packaged without BPA (e.g., eight parts per billion in one test of our canned albacore tuna)". Reports this is "possibly due to environmental contamination."
Walnut Acres	The Hain Celestial Group, Inc.			X	Reports "canned soups transitioned to non-BPA linings in the Fall of 2012".
Wegmans	Wegmans Food Markets, Inc.		X		
Westbrae Natural	The Hain Celestial Group, Inc.			X	

Western Family	Western Family Foods, Inc.			X	
White Rose	White Rose, Inc.			X	No response
Wild Harvest Organic	Supervalu, Inc.			X	
Wild Planet	Wild Planet Foods, Inc.			X	
Wild Selections	Bumble Bee Foods, LLC			X	
White House Foods	National Fruit Product Company	X			
Wolf Brand Chili	ConAgra Foods, Inc.	X			
Wolfgang Puck Organic Soups	Campbell Soup Company	X			
Woodstock	Blue Marble Brands			X	
World Classics	Topco Associates, LLC	X			
Worthington Loma Linda	Kellogg Company			X	No response
Yankee Clipper Seafood	Panos Brands			X	No response

\*Communication with Allens, Inc. occurred prior to its acquisition by Sager Creek Acquisition Corp. and subsequent name change to Sager Creek Vegetable Company.

†Joint Venture Between Hormel Foods Corporation and Herdez del Fuerte, S.A. de CV.

‡No indication from company website that current Imagine products continue to be packaged in cans.

§Communication with Kraft Foods Group, Inc. occurred prior to its merger with the Berkshire Hathaway, Inc. and 3G Capital consortium-owned, Heinz

¶Native Forest Organic Coconut Milk, Organic Light Coconut Milk, Crushed Pineapple, Organic Pineapple Slices, Organic Pineapple Chunks, Organic Mango Chunks, Organic Papaya Chunks, Organic Tropical Fruit Salad, Organic Mangosteen, Organic Mandarin Orange Slices, Organic Sliced Peaches, Organic Sliced Asian Pears, Organic Rambutan, Organic Grapefruit Segments, Organic Cut Baby Corn, and Organic Whole Okra

\\Foodservice products in this case refer to #10 cans, or cans with an approximate volume of three quarts.

Source: Environmental Working Group, from data collected in EWG market survey and analysis, 2014

\* In June 2015, ConAgra Foods informed EWG that it has made substantial progress removing BPA from its product packaging portfolio, with plans to complete its transition to BPA alternatives by the end of July 2015.

\*\* Disclaimer. The conclusions and findings that appear on this page reflect EWG's research at the time of publication stated above. In light of evolving market conditions, subsequent product reformulations, and other factors, they may no longer be current. EWG makes no representations or warranties about any of the products that may appear on this page. EWG hereby disclaims all warranties with regard to any of the products that may appear on this page, including express, statutory, implied warranties of merchantability or fitness for a particular use.

## APPENDIX C:

# COMPANIES USING BPA-FREE CANS FOR SOME PRODUCTS

Company	Product	Company provided notes
Aldi Nord	Trader Joe's Canned Beans (See Notes)	All except organic baked beans
Aldi Nord	Trader Joe's Canned Fish/Seafood (See Notes)	All except sardines, crab, cherry stone clams, and cherry stone oysters
Aldi Nord	Trader Joe's Canned Fruits and Vegetables (See Notes)	All except mandarins, hatch chilies, artichokes, and olives
Aldi Nord	Trader Joe's Canned Tomatoes (All)	
Aldi Nord	Trader Joe's Canned Beef	
Aldi Nord	Trader Joe's Canned Chicken	
Aldi Nord	Trader Joe's Canned Coconut Cream	
Aldi Nord	Trader Joe's Canned Coconut Milk	
Aldi Nord	Trader Joe's Organic Black Bean Soup	
Aldi Nord	Trader Joe's Organic Lentil Soup	
Aldi Nord	Trader Joe's Organic Split Pea Soup	
Aldi Nord	Trader Joe's Organic Vegetarian Chili	
Aldi Nord	Trader Joe's Organic Canned Pumpkin	
Berkshire Hathaway, Inc. and 3G Capital (Consortium)	Heinz Canned Baby Food (All; See Notes)	Company representative could only confirm the status of Heinz products sold in the U.S.
Berkshire Hathaway, Inc. and 3G Capital (Consortium)	Heinz Canned Beans (All; See Notes)	Company representative could only confirm the status of Heinz products sold in the U.S.
Berkshire Hathaway, Inc. and 3G Capital (Consortium)	Heinz Canned Soup (All; See Notes)	Company representative could only confirm the status of Heinz products sold in the U.S.
Berkshire Hathaway, Inc. and 3G Capital (Consortium)	Heinz Canned Pasta (All; See Notes)	Company representative could only confirm the status of Heinz products sold in the U.S.
Bumble Bee Foods, LLC	Bumble Bee Canned Tuna (See Notes)	Only "standard tuna items produced at our US facilities"
Bumble Bee Foods, LLC	Bumble Bee Canned Salmon (See Notes)	Only "traditional salmon" (with skin and bones)
Bumble Bee Foods, LLC	Bumble Bee Sardines (All)	

Bumble Bee Foods, LLC	Wild Selections Canned Tuna (See Notes)	Only “standard tuna items produced at our US facilities”
Chicken of the Sea International	Chicken of the Sea Canned Seafood (See Notes)	All canned, Chicken of the Sea products except 66.5 oz canned tuna
ConAgra Foods, Inc.	Hunt’s Crushed Tomatoes, Plain	
ConAgra Foods, Inc.	Hunt’s Diced Tomatoes, Plain	
ConAgra Foods, Inc.	Hunt’s Tomato Sauce, Plain	
ConAgra Foods, Inc.	Hunt’s Whole Peeled Plum Tomatoes, Plain	
Costco Wholesale Corporation	Kirkland Signature Canned Chicken	
Costco Wholesale Corporation	Kirkland Signature Organic Tomato Paste	
Costco Wholesale Corporation	Kirkland Signature Organic Tomato Sauce	
Costco Wholesale Corporation	Kirkland Signature Organic Diced Tomatoes	
Costco Wholesale Corporation	Kirkland Signature Organic Stewed Tomatoes	
Costco Wholesale Corporation	Kirkland Signature Peaches in Peach Juice	
Costco Wholesale Corporation	Kirkland Signature Sockeye Salmon	
Crown Prince, Inc.	Crown Prince Boiled Whole Oysters (8 oz)	
Crown Prince, Inc.	Crown Prince Crosspacked Brisling Sardines in Extra Virgin Olive Oil (3.75 oz)	
Crown Prince, Inc.	Crown Prince Kipper Snacks, Naturally Smoked	
Crown Prince, Inc.	Crown Prince One Layer Brisling Sardines in Mustard (3.75 oz)	
Crown Prince, Inc.	Crown Prince One Layer Brisling Sardines in Oil, No Salt Added (3.75 oz)	
Crown Prince, Inc.	Crown Prince One Layer Brisling Sardines in Soy Bean Oil (3.75 oz)	
Crown Prince, Inc.	Crown Prince One Layer Brisling Sardines in Tomato (3.75 oz)	
Crown Prince, Inc.	Crown Prince One Layer Brisling Sardines Mediterranean Style (3.75 oz)	
Crown Prince, Inc.	Crown Prince Sardines in Louisiana Hot Sauce (4.25 oz)	
Crown Prince, Inc.	Crown Prince Sardines in Mustard (4.25 oz)	
Crown Prince, Inc.	Crown Prince Sardines in Oil (4.25 oz)	
Crown Prince, Inc.	Crown Prince Sardines in Tomato Sauce (4.25 oz)	
Crown Prince, Inc.	Crown Prince Sardines in Water (4.25 oz)	

Crown Prince, Inc.	Crown Prince Sardines with Green Chilies (4.25 oz)
Crown Prince, Inc.	Crown Prince Skinless & Boneless Sardines in Olive Oil (3.75 oz)
Crown Prince, Inc.	Crown Prince Smoked Oysters in Cottonseed Oil (3.75 oz)
Crown Prince, Inc.	Crown Prince Smoked Oysters with Red Chili Pepper
Crown Prince, Inc.	Crown Prince Two Layer Brisling Sardines in Extra Virgin Olive Oil (3.75 oz)
Crown Prince, Inc.	Crown Prince Two Layer Brisling Sardines in Soy Bean Oil (3.75 oz)
Crown Prince, Inc.	Crown Prince Natural Boiled Whole Oysters in Water
Crown Prince, Inc.	Crown Prince Natural Brisling Sardines in Extra Virgin Olive Oil (3.75 oz)
Crown Prince, Inc.	Crown Prince Natural Brisling Sardines in Mustard (3.75 oz)
Crown Prince, Inc.	Crown Prince Natural Brisling Sardines in Spring Water (3.75 oz)
Crown Prince, Inc.	Crown Prince Natural Brisling Sardines Mediterranean Style (3.75 oz)
Crown Prince, Inc.	Crown Prince Natural Chunk Light Tongol Tuna in Spring Water
Crown Prince, Inc.	Crown Prince Natural Chunk Light Tongol Tuna in Spring Water, No Salt Added
Crown Prince, Inc.	Crown Prince Natural Kipper Snacks with Cracked Black Pepper (3.25 oz)
Crown Prince, Inc.	Crown Prince Natural Kipper Snacks, Naturally Smoked (3.25 oz)
Crown Prince, Inc.	Crown Prince Natural Skinless & Boneless Alaskan Pink Salmon
Crown Prince, Inc.	Crown Prince Natural Skinless & Boneless Sardines in Pure Olive Oil (3.75 oz)
Crown Prince, Inc.	Crown Prince Natural Skinless & Boneless Sardines in Water (4.37 oz)
Crown Prince, Inc.	Crown Prince Natural Smoked Alaskan Coho Salmon
Crown Prince, Inc.	Crown Prince Natural Smoked Baby Clams in Olive Oil (3 oz)
Crown Prince, Inc.	Crown Prince Natural Smoked Oysters in Pure Olive Oil
Crown Prince, Inc.	Crown Prince Natural Smoked Oysters with Red Chili Pepper
Crown Prince, Inc.	Crown Prince Natural Solid White Albacore Tuna in Spring Water (5 oz)
Crown Prince, Inc.	Crown Prince Natural Solid White Albacore Tuna in Spring Water, No Salt Added (5 oz)
Crown Prince, Inc.	Crown Prince Natural Yellowfin Tuna in Extra Virgin Olive Oil
Crown Prince, Inc.	Crown Prince Natural Yellowfin Tuna in Spring Water

Crown Prince, Inc.	Ocean Prince Boiled Whole Oysters (8 oz)	
Crown Prince, Inc.	Ocean Prince Cocktail Smoked Oysters in Cottonseed Oil (3 oz)	
Crown Prince, Inc.	Ocean Prince Kipper Snacks, Naturally Smoked	
Crown Prince, Inc.	Ocean Prince Sardines in Louisiana Hot Sauce (3.75 oz)	
Crown Prince, Inc.	Ocean Prince Sardines in Louisiana Hot Sauce (4.25 oz)	
Crown Prince, Inc.	Ocean Prince Sardines in Mustard (3.75 oz)	
Crown Prince, Inc.	Ocean Prince Sardines in Mustard (4.25 oz)	
Crown Prince, Inc.	Ocean Prince Sardines in Oil (3.75 oz)	
Crown Prince, Inc.	Ocean Prince Sardines in Oil (4.25 oz)	
Crown Prince, Inc.	Ocean Prince Sardines in Tomato Sauce (4.25 oz)	
Crown Prince, Inc.	Ocean Prince Sardines in Water (3.75 oz)	
Crown Prince, Inc.	Ocean Prince Sardines in Water (4.25 oz)	
Crown Prince, Inc.	Ocean Prince Sardines with Green Chilies (4.25 oz)	
Crown Prince, Inc.	Ocean Prince Skinless & Boneless Sardines in Oil (4.25 oz)	
Crown Prince, Inc.	Ocean Prince Smoked Oysters in Cottonseed Oil (3 oz)	
Crown Prince, Inc.	Ocean Prince Smoked Oysters with Red Chili Pepper (3 oz)	
Dongwon Enterprise Co., Ltd	Starkist Canned Seafood (See Notes)	All canned, Starkist products except 66.5 oz canned tuna
EcoFish, Inc.	Henry & Lisa's Natural Seafood Solid White Albacore Tuna	
EcoFish, Inc.	Henry & Lisa's Natural Seafood Solid White Albacore Tuna, Very Low Sodium	
EcoFish, Inc.	Henry & Lisa's Natural Seafood Wild Sardines in Extra Virgin Olive Oil	
EcoFish, Inc.	Henry & Lisa's Natural Seafood Wild Sardines in Spring Water	
Eden Foods, Inc.	Eden Organic Aduki Beans	
Eden Foods, Inc.	Eden Organic Black Beans	
Eden Foods, Inc.	Eden Organic Black Eyed Peas	
Eden Foods, Inc.	Eden Organic Black Soybeans	
Eden Foods, Inc.	Eden Organic Butter Beans (Baby Lima)	

Eden Foods, Inc.	Eden Organic Cannellini (White Kidney) Beans
Eden Foods, Inc.	Eden Organic Garbanzo Beans (Chick Peas)
Eden Foods, Inc.	Eden Organic Great Northern Beans
Eden Foods, Inc.	Eden Organic Dark Red Beans
Eden Foods, Inc.	Eden Organic Navy Beans
Eden Foods, Inc.	Eden Organic Pinto Beans
Eden Foods, Inc.	Eden Small Red Beans
Eden Foods, Inc.	Eden Organic Refried Black Beans
Eden Foods, Inc.	Eden Organic Refried Black Soy & Black Beans
Eden Foods, Inc.	Eden Organic Refried Kidney Beans
Eden Foods, Inc.	Eden Organic Refried Pinto Beans
Eden Foods, Inc.	Eden Organic Spicy Refried Black Beans
Eden Foods, Inc.	Eden Organic Spicy Refried Pinto Beans
Eden Foods, Inc.	Eden Organic Brown Rice & Chick Peas
Eden Foods, Inc.	Eden Organic Brown Rice & Kidney Beans
Eden Foods, Inc.	Eden Organic Brown Rice & Lentils
Eden Foods, Inc.	Eden Organic Brown Rice & Pinto Beans
Eden Foods, Inc.	Eden Organic Cajun Rice & Small Red Beans
Eden Foods, Inc.	Eden Organic Caribbean Rice & Black Beans
Eden Foods, Inc.	Eden Organic Curried Rice & Lentils
Eden Foods, Inc.	Eden Mexican Rice & Black Beans
Eden Foods, Inc.	Eden Organic Moroccan Rice & Garbanzo Beans
Eden Foods, Inc.	Eden Organic Spanish Rice & Pinto Beans
Eden Foods, Inc.	Eden Baked Beans with Sorghum & Mustard
Eden Foods, Inc.	Eden Black Bean & Quinoa Chili
Eden Foods, Inc.	Eden Organic Caribbean Black Beans



Eden Foods, Inc.	Eden Organic Chili Beans with Jalapeno & Chili Peppers	
Eden Foods, Inc.	Eden Great Northern Bean & Barley Chili	
Eden Foods, Inc.	Eden Kidney Bean & Kamut Chili	
Eden Foods, Inc.	Eden Organic Lentils with Onion & Bay Leaf	
Eden Foods, Inc.	Eden Pinto Bean & Spelt Chili	
Eden Foods, Inc.	Eden Organic Spicy Pinto Beans	
Faribault Foods, Inc.	S&W Organic Kidney Beans	
Faribault Foods, Inc.	S&W Organic Pinto Beans	
Faribault Foods, Inc.	S&W Organic Garbanzo Beans	
Faribault Foods, Inc.	S&W Organic Black Beans	
Fresh & Easy, LLC	Fresh & Easy Organic Black Beans	
Fresh & Easy, LLC	Fresh & Easy Organic Dark Red Kidney Beans	
Fresh & Easy, LLC	Fresh & Easy Organic Garbanzo Beans	
Fresh & Easy, LLC	Fresh & Easy Organic Pinto Beans	
Itochu Corporation	Dole Canned Products (See Notes)	All North American Products. Dole declined to provide a list of products sold outside of North America for which the cans might not be BPA-free (if any).
La Preferida, Inc.	La Preferida Organic Black Beans	
La Preferida, Inc.	La Preferida Organic Black Refried Beans	
La Preferida, Inc.	La Preferida Organic Garbanzo Beans	
La Preferida, Inc.	La Preferida Organic Pinto Beans	
La Preferida, Inc.	La Preferida Organic Refried Beans	
Natural Value, Inc.	Natural Value Pure Coconut Milk (13.5 oz)	
Natural Value, Inc.	Natural Value Pure Lite Coconut Milk (13.5 oz)	
Natural Value, Inc.	Natural Value Organic Coconut Milk (13.5 oz)	
Natural Value, Inc.	Natural Value Organic Lite Coconut Milk (13.5 oz)	
Natural Value, Inc.	Natural Value Organic Coconut Milk (96 oz)	
Natural Value, Inc.	Natural Value Pure Coconut Cream (13.5 oz)	

Natural Value, Inc.	Natural Value Organic Coconut Cream (13.5)
Natural Value, Inc.	Natural Value Albacore Tuna, Salted (5 oz)
Natural Value, Inc.	Natural Value Albacore Tuna, No Salt Added (5 oz)
Natural Value, Inc.	Natural Value Tongol Tuna, Salted (5 oz)
Natural Value, Inc.	Natural Value Tongol Tuna, No Salt Added (5 oz)
Natural Value, Inc.	Natural Value Yellowfin Tuna, Salted (5 oz)
Natural Value, Inc.	Natural Value Yellowfin Tuna, No Salt Added (5 oz)
Natural Value, Inc.	Natural Value Skipjack Tuna, Salted (5 oz)
Natural Value, Inc.	Natural Value Skipjack Tuna, No Salt Added (5 oz)
Natural Value, Inc.	Natural Value Organic Tomato Sauce (15 oz)
Natural Value, Inc.	Natural Value Organic Diced tomatoes in Tomato Juice, No Salt Added (14.5 oz)
Natural Value, Inc.	Natural Value Organic Crushed Tomatoes with Basil (28 oz)
Natural Value, Inc.	Natural Value Organic Diced Tomatoes in Tomato Juice (14.5 oz)
Natural Value, Inc.	Natural Value Organic Diced Tomatoes in Tomato Juice (28 oz)
Natural Value, Inc.	Natural Value Organic Tomato Paste (6 oz)
Natural Value, Inc.	Natural Value Organic Tomato Sauce (8 oz)
Natural Value, Inc.	Natural Value Organic Crushed Tomatoes (28 oz)
Natural Value, Inc.	Natural Value Organic Whole-Peeled Tomatoes in Tomato Juice (28 oz)
Natural Value, Inc.	Natural Value Organic Tomato Sauce (106 oz)
Natural Value, Inc.	Natural Value Organic Diced Tomatoes in Tomato Juice (102 oz)
Natural Value, Inc.	Natural Value Organic Tomato Puree (111 oz)
Natural Value, Inc.	Natural Value Organic Crushed Tomatoes (106 oz)
Natural Value, Inc.	Natural Value Organic Ground Peeled Tomatoes in Tomato Juice (102 oz)
Natural Value, Inc.	Natural Value Diced Green Chiles (4 oz)
Natural Value, Inc.	Natural Value Whole Green Chiles (4 oz)
Natural Value, Inc.	Natural Value Organic Black Beans (15 oz)

Natural Value, Inc.	Natural Value Organic Dark Red Kidney Beans (15 oz)	
Natural Value, Inc.	Natural Value Organic Garbanzo Beans (15 oz)	
Natural Value, Inc.	Natural Value Organic Pinto Beans (15 oz)	
Natural Value, Inc.	Natural Value Organic Black Beans (108 oz)	
Natural Value, Inc.	Natural Value Organic Dark Red Kidney Beans (108 oz)	
Natural Value, Inc.	Natural Value Organic Garbanzo Beans (108 oz)	
Natural Value, Inc.	Natural Value Organic Pinto Beans (108 oz)	
Natural Value, Inc.	Natural Value Organic Cut Green Beans (See Notes)	Product not shown on Natural Value website as of March, 5 2015
Natural Value, Inc.	Natural Value Organic French Cut Green Beans (See Notes)	Product not shown on Natural Value website as of March, 5 2015
Natural Value, Inc.	Natural Value Organic Golden Corn (See Notes)	Product not shown on Natural Value website as of March, 5 2015
Natural Value, Inc.	Natural Value Organic Sweet Peas (See Notes)	Product not shown on Natural Value website as of March, 5 2015
Natural Value, Inc.	Natural Value Organic White Corn (See Notes)	Product not shown on Natural Value website as of March, 5 2015
Neil Jones Food Company	San Benito Canned Products (See Notes)	All San Benito canned products except foodservice products
Neil Jones Food Company	San Benito Organic Canned Products (See Notes)	All San Benito Organic canned products except foodservice products
Oregon's Choice Gourmet	Oregon's Choice Gourmet Albacore, Lightly Salted (6 oz)	
Oregon's Choice Gourmet	Oregon's Choice Gourmet Albacore, No Salt (6 oz)	
Oregon's Choice Gourmet	Oregon's Choice Gourmet Smoked Albacore (6 oz)	
Oregon's Choice Gourmet	Oregon's Choice Gourmet Jalapeno Garlic albacore (6 oz)	
Oregon's Choice Gourmet	Oregon's Choice Gourmet Sardines in Olive Oil (6 oz)	
Safeway, Inc.	O Organics Black Beans	
Safeway, Inc.	O Organics Cannellini Beans	
Safeway, Inc.	O Organics Garbanzo Beans	
Safeway, Inc.	O Organics Pinto Beans	
Safeway, Inc.	O Organics Red Kidney Beans	
Seneca Foods	Libby's Canned Vegetables (All; See Notes)	"All vegetables" also includes beans such as garbanzo, but excludes the "high-acid sauerkraut, pickled beet, and bean salad products" listed as exceptions on company website.
Smart & Final, Inc.	First Street Canned Fruit (All)	

Smart & Final, Inc.	First Street Canned Tomatoes (All)	
Smart & Final, Inc.	First Street Canned Vegetables (See Notes)	All "domestic" canned vegetables
The Manischewitz Company	Season Brisling Sardines In Water, Salt Added	
The Manischewitz Company	Season Brisling Sardines in Water, No Salt Added	
The Manischewitz Company	Season Club Sardines In Water, Salt Added	
The Manischewitz Company	Season Lightly Smoked Sprats in Olive Oil, Salt Added	
The Manischewitz Company	Season Brisling Sardines Cross-Packed in Pure Olive Oil, Salt Added	
The Manischewitz Company	Season Sardine Fillets in Lemon Garlic Sauce, Salt Added	
The Manischewitz Company	Season Sardine Fillets in Lemon Pepper Sauce, Salt Added	
The Manischewitz Company	Season Brisling Sardines in Pure Olive Oil, Salt Added, One Layer	
The Manischewitz Company	Season Sardines in Tomato Sauce	
The Manischewitz Company	Season Sardine Fillets in Sweet & Tangy Spanish Style Sauce, Salt Added	
The Manischewitz Company	Season Brisling Sardines in Tomato Sauce	
The Manischewitz Company	Season Skinless & Boneless Sardines in Tomato Sauce, Salt Added	
The Manischewitz Company	Season Skinless & Boneless Sardines in Water, Salt Added	
Vital Choice Wild Seafood & Organics, Inc.	Vital Choice Canned Seafood (See Notes)	All Vital Choice, canned products except dungeness crab and smoked mussels
Wegmans Food Markets, Inc.	Wegmans Diced Petite Tomatoes	
Wegmans Food Markets, Inc.	Wegmans Diced Tomatoes (14.5 oz)	
Wegmans Food Markets, Inc.	Wegmans Diced Tomatoes, No Salt Added	
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Organic Diced Tomatoes with Garlic, Oregano & Basil	
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Diced Tomatoes with Roasted Garlic & Onion	
Wegmans Food Markets, Inc.	Wegmans Diced Tomatoes (28 oz)	
Wegmans Food Markets, Inc.	Wegmans Whole Peeled Tomatoes	
Wegmans Food Markets, Inc.	Wegmans Italian Classics Diced Petite Tomatoes with Garlic, Olive Oil & Seasoning	
Wegmans Food Markets, Inc.	Wegmans Italian Classics San Marzano Tomatoes	
Wegmans Food Markets, Inc.	Wegmans Diced Italian Style Tomatoes	

Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Diced Chili Style Medium Tomatoes
Wegmans Food Markets, Inc.	Wegmans Italian Classics Kitchen Cut Roma Tomatoes with Basil
Wegmans Food Markets, Inc.	Wegmans Italian Style Whole Tomatoes with Basil
Wegmans Food Markets, Inc.	Wegmans Italian Classics Whole Roma Tomatoes, with Garlic & Basil
Wegmans Food Markets, Inc.	Wegmans Whole Peeled Tomatoes
Wegmans Food Markets, Inc.	Wegmans Whole Peeled Tomatoes, No Salt Added
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Organic Diced Tomatoes in Juice
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Organic Whole Peeled Tomatoes in Juice
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Organic Crushed Tomatoes in Puree with Basil
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Organic Crushed Tomatoes in Puree
Wegmans Food Markets, Inc.	Wegmans Crushed Tomatoes
Wegmans Food Markets, Inc.	Wegmans Stewed Tomatoes
Wegmans Food Markets, Inc.	Wegmans Italian Style Stewed Tomatoes
Wegmans Food Markets, Inc.	Wegmans Italian Classics Crushed Tomatoes with Italian Style Herbs
Wegmans Food Markets, Inc.	Wegmans Italian Classics Coarse Ground Tomatoes
Wegmans Food Markets, Inc.	Wegmans Tomato Paste
Wegmans Food Markets, Inc.	Wegmans Tomato Sauce
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Tomato Puree
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Organic Tomato Paste
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Whole Kernel Crisp'N Sweet Corn
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Whole Kernel Corn
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Whole Kernel Corn, No Salt Added
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Cream Style Corn
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Whole Kernel Corn
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Whole Kernel Bread & Butter Corn
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Sliced Beets, No Salt Added

Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Sliced Beets
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Whole Beets
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Cut Green Beans
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Cut Green Beans, No Salt Added
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About French Style Green Beans
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About French Style Green Beans, No Salt Added
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Organic Cut Green Beans
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Sliced Carrots
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Sliced Carrots, No Salt Added
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Whole Carrots
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Sweet Peas (15 oz)
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Small Peas
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Sweet Peas, No Salt Added
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Sweet Peas (8.5 oz)
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Organic Sweet Peas
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Mixed Vegetables
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Sliced Yellow Cling Peaches
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Fruit Cocktail
Wegmans Food Markets, Inc.	Wegmans Food You Feel Good About Halved Apricots, Unpeeled
Whole Foods Market IP. LP	365 Everyday Value Canned Fish (All)
Whole Foods Market IP. LP	365 Everyday Value Canned Pumpkin
Whole Foods Market IP. LP	365 Everyday Value Canned Tomatoes (All)
Whole Foods Market IP. LP	365 Everyday Value Coconut Milks (All)
Whole Foods Market IP. LP	365 Everyday Value Organic Canned Vegetables (All)
Wild Planet Foods, Inc.	Wild Planet Wild Pacific Sardines in Extra Virgin Olive Oil
Wild Planet Foods, Inc.	Wild Planet Wild Pacific Sardines in Extra Virgin Olive Oil with Lemon

Wild Planet Foods, Inc.	Wild Planet Wild Pacific Sardines in Water
Wild Planet Foods, Inc.	Wild Planet Wild Pacific Sardines in Marinara Sauce
Wild Planet Foods, Inc.	Wild Planet Wild Albacore Tuna (5 oz)
Wild Planet Foods, Inc.	Wild Planet Wild Albacore Tuna, No Salt Added (5 oz)
Wild Planet Foods, Inc.	Wild Planet Wild Albacore Tuna in Extra Virgin Olive Oil (5 oz)
Wild Planet Foods, Inc.	Wild Planet Wild Skipjack Light Tuna (5 oz)
Wild Planet Foods, Inc.	Wild Planet Wild Alaska Pink Salmon (6 oz)
Wild Planet Foods, Inc.	Wild Planet Wild Pacific Sockeye Salmon (6 oz)

Source: Environmental Working Group, from data collected in EWG market survey and analysis, 2014

\* In June 2015, ConAgra Foods informed EWG that it has made substantial progress removing BPA from its product packaging portfolio, with plans to complete its transition to BPA alternatives by the end of July 2015.

\*\* Disclaimer. The conclusions and findings that appear on this page reflect EWG's research at the time of publication stated above. In light of evolving market conditions, subsequent product reformulations, and other factors, they may no longer be current. EWG makes no representations or warranties about any of the products that may appear on this page. EWG hereby disclaims all warranties with regard to any of the products that may appear on this page, including express, statutory, implied warranties of merchantability or fitness for a particular use.

## APPENDIX D:

# BRANDS USING BPA-FREE CANS

<b>Brand</b>	<b>Company</b>
Ace of Diamonds	Chicken of the Sea International
American Tuna	American Tuna, Inc.
Amy's	Amy's Kitchen, Inc.
Annie's Homegrown	Annie's, Inc.
Beach Cliff	Bumble Bee Foods, LLC
Bearitos	The Hain Celestial Group, Inc.
Bionaturae	Euro-USA Trading Co., Inc.
Earth's Best Organic	The Hain Celestial Group, Inc.
EarthPure	Neil Jones Food Company
Farmer's Market	Farmer's Market Foods, Inc.
Genova	Chicken of the Sea International
Gluten Free Café (From Health Valley)	The Hain Celestial Group, Inc.
Health Valley	The Hain Celestial Group, Inc.
Health Valley Organic	The Hain Celestial Group, Inc.
Imagine	The Hain Celestial Group, Inc.
Juanita's	Juanita's Foods
Jyoti Natural Foods	Jyoti Natural Foods
King Oscar	King Oscar AS
Lucini Italia	Lucini Italia Company
Muir Glen	General Mills, Inc.
Native Forest	Edward & Sons Trading Company, Inc.
Natural Sea	Blue Marble Brands
Pillar Rock	Ocean Beauty Seafood
Port Clyde	Ocean Beauty Seafood
Raincoast Trading	Raincoast Trading Company
Read	Seneca Foods Corporation
Seneca	Seneca Foods Corporation
Sprouts Farmers Market	Sprouts Farmers Market, Inc.
Tyson	Tyson Foods, Inc.
Walnut Acres	The Hain Celestial Group, Inc.
Westbrae Natural	The Hain Celestial Group, Inc.

Source: Environmental Working Group, from data collected in EWG market survey and analysis, 2014

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## APPENDIX E:

# COMPANIES WITH VARYING BPA CLASSIFICATIONS ACROSS MULTIPLE BRANDS

Blue Marble Brands is classified as *using BPA-free cans, using BPA cans and unclear*. ConAgra Foods, Inc.\*, General Mills, and Ocean Beauty Seafood are classified as *using BPA-free cans and using BPA cans*. Goya Foods, Inc. and Campbell Soup Company are classified as *using BPA cans and unclear*. Smart & Final, Inc. is classified as *using BPA-free cans and uncltear*. Faribault Foods, Inc. and Safeway, Inc. are classified as *using BPA-free cans for some products and unclear*. Seneca Foods and Bumble Bee Foods, LLC are classified as *using BPA-free cans and using BPA-free cans for some products*. Del Monte Foods, Inc. and The Manischewitz Co. are classified as *using BPA cans and using BPA-free cans for some products*.

\* In June 2015, ConAgra Foods informed EWG that it has made substantial progress removing BPA from its product packaging portfolio, with plans to complete its transition to BPA alternatives by the end of July 2015.

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