

## Food Waste Scenarios

### Scenario 1: Almond Farmer

Summer is coming to an end, and it's time for the almond harvest in California. After the farmer harvests his crop and the almonds have been extracted, he has almond hulls to throw away. The farmer has tried composting the hulls and reapplying them as fertilizer but this takes up too much space. It actually costs him money to transport the hulls away from the almond orchard. What else can the farmer do with all his "leftover" almond hulls?

### Scenario 2: Apple Farmer

This Washington apple farmer takes pride in his local apples being picked and turned into the highest quality apple cider in the county. However, while he markets his delectable apple cider, he is also trying to figure out how to manage all the waste produced from the cider-making process. Where do all the apple peels and pulp go? It costs money to send these byproducts to the landfill, and there is not enough room on the farm to simply bury them. What can the apple farmer do to manage the byproducts?

### Scenario 3: Bakery Waste

The *Allsup Baking Company* in Pennsylvania is getting serious about minimizing the environmental impact of their cookie and candy factory. Instead of paying a waste management company to dispose of waste products like broken candy bars and too-small cookies, the company president is looking into alternative options with local farmers.

### Scenario 4: Cull Onions

The onion harvest is almost done in eastern Oregon, but the farmer is contemplating what he can do with all the onions that were damaged during picking and cannot be sold. These are called "cull" onions. Cull onions could be bruised, crushed or spoiled. The farmer is considering the cost involved with disposing of all these damaged onions at the nearest landfill, but he is concerned about the cost of transportation and disposal. What other options does the farmer have?

### Scenario 5: Brewers Wet Grains

*Verde Burgers and Brewing* is a local restaurant and micro-brewery in central Colorado that has experienced huge success during their first year of business. The cost for disposing the wet brewers grain is staggering, and the managers are meeting to consider what other options they have to reduce this cost. Instead of paying two of the bus boys to shovel all the hot, heavy, wet grain into the dumpster and paying the local waste management company to haul it away twice a week, can you help the managers find another solution?

### **Scenario 6: Orange Peels and Pulp**

It's the middle of January, and it has been a good year for the orange harvest. *Florida Natural* juice is juicing truckloads of oranges daily. The orange peels and pulp are currently going to the landfill, and the plant managers are looking into other options that will not only reduce their environmental impact but also be more cost effective. What solutions should these managers look into?

### **Scenario 7: Tomato Processing Plant**

Tomatoes are washed, sorted and peeled before being turned into tomato juice, ketchup or other canned tomato products. Where do all the tomato peels and seeds go? The *Barrett Tomato Canning* plant in California is looking for creative solutions to help manage the food waste created while canning delicious tomato products. What do you suggest their facilities management team do to overcome this challenge?

### **Scenario 8: Rice Bran and Hulls**

It's late summer, and *Uncle Joe's Rice Company* in Arkansas is busy harvesting, cleaning and packaging rice for customers across the United States. The hull is the outermost part of the rice and is separated from the rice grain during milling. Managing the growing piles of rice hulls becomes more difficult as the harvest goes on. It is costly to dispose of the hulls due to rising fuel costs and maintenance on tractors and trailers. What would you propose the rice company do to manage this byproduct of rice?