

## **INSPIRED K-12 MENUS WITH** BLUEBERRIES







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### Who Is USHBC?

The U.S. Highbush Blueberry Council (USHBC) is a grower-driven organization working to be the global leader in knowledge, programs, and resources used and shared by the blueberry industry.

We support domestic and international farmers who have a passion for growing delicious and high-quality blueberries that inspire your students to grab a boost of blue.

Through collaboration and innovation, USHBC is moving our industry forward to bring you the best-quality fruit and share the endless possibilities of blueberries.





### Blueberry Formats for K-12 Foodservice

### Fresh Blueberries



### **Definition & Processing**

Fresh blueberries are harvested, precooled, sorted, and packaged for delivery.

#### **Use Case**

Due to their minimal processing, fresh blueberries have a relatively short shelf life. They are very delicate and will get crushed in industrial equipment. For these reasons, fresh blueberries may be better suited for applications with gentle processing such as hand placement and foodservice applications such as salads or parfaits.

### Individually Quick Frozen Blueberries



### **Definition & Processing**

Fresh ripe blueberries are harvested, precooled, washed, and individually quick frozen.

### **Use Case**

IQF blueberries are a fantastic substitute in most cases for fresh berries in a plant environment. Once cooked, it is hard to distinguish IQF berries from fresh berries. They provide the burst and juiciness of a fresh berry while having a long shelf life. Because they are free flowing, as opposed to case frozen or straight pack blueberries, IQF berries can usually be processed frozen. IQF berries provide the individual fresh fruit identity, so any formulation where the fruit identity is important would benefit from IQF.

### Case Frozen Blueberries



### **Definition & Processing**

Fresh ripe blueberries are harvested, precooled, washed, and frozen in 30-pound cases.

### **Use Case**

Identical uses to IQF blueberries. In some instances, there may be slightly more clumping of berries and juice/water crystals making these berries best for uses where they are pureéd such as smoothies, sauces, and compotes.

## Year-Round Availability of Blueberries

Blueberries thrive under clear blue skies, with hot days and cool nights. They're native to North America where the harvest runs from early spring to early fall.

During the North American winter, South America is experiencing summer, and our international farmers keep fresh blueberries available from fall to early spring.

FRESH BLUEBERRIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
Peru												
Mexico												
Chile												
Florida												
Georgia												
California												
North Carolina												
Indiana												
New Jersey												
Michigan												
Oregon												
British Columbia												
Washington												
Argentina												
FROZEN BLUEBERRIES												







### National School Breakfast Program Meal Pattern Chart

	GRADES K-5	GRADES 6-8	GRADES 9-12				
Food Components	Amount of Food <sup>a</sup> per Week						
	(Minimum per day)						
Fruits (cups) <sup>b,c</sup>	5 (1)	5 (1)	5 (1)				
Vegetables (cups) <sup>b,c</sup>	0	0	0				
Dark green	0	0	0				
Red/Orange	0	0	0				
Beans and peas (legumes)	0	0	0				
Starchy	0	0	0				
Other	0	0	0				
Grains (oz eq) <sup>d</sup>	7-10 (1)	8-10 (1)	9-10 (1)				
Meats/Meat Alternates (oz eq) <sup>e</sup>	0	0	0				
Fluid Milk (cups) <sup>f</sup>	5 (1)	5 (1)	5 (1)				
Other Specifications: Daily Amount Based on the Average for a 5-Day Week							
Min-max calories (kcal) <sup>gh</sup>	350-500	400-550	450-600				
Saturated fat (% of total calories) <sup>h</sup>	<10	<10	<10				
Sodium Target 1 (mg)	<u>&lt;</u> 540	<u>&lt;</u> 600	<u>&lt;</u> 640				
Trans fat <sup>h</sup>	Nutrition label or manufacturer specifications must indicate zero grams of <i>trans</i> fat per serving.						

a Food items included in each group and subgroup and amount equivalents. Minimum creditable serving is 1/8 cup. b One-quarter cup of dried fruit counts as 1/2 cup of truit; 1 cup of leafy greens counts as 1/2 cup of vegetables. No more than half of the fruit or vegetable offerings may be in the form of juice. All juice must be 100% full-strength. c Schools must offer 1 cup of fruit daily and 5 cups of fruit weekly. Vegetables may be substituted for fruits, but the first two cups per week of any such substitution must be from the dark green, red/orange, beans/peas (legumes), or "Other vegetables" subgroups, as defined in §210.10(c)(2)(iii) of this chapter. d At least 80 percent of grains offered weekly must meet the whole grain-rich criteria specified in FNS guidance, and the remaining grain items offered must be enriched. Schools may substitute 1 oz. eq. of meat/meat alternate for 1 oz. eq. of grains after the minimum daily grains requirement is met. e There is no meat/meat alternate at each meal service. g The average daily calories for a 5-day school week must be within the range (at least the minimum and no more than the maximum values). h Discretionary sources of calories (solid fats and added sugars) may be added to the meal pattern if within the specifications for calories, saturated fat, trans fat, and sodium. Foods of minimal nutritional value and fluid milk with fat content greater than 1 percent milk fat are not allowed.

## National School Lunch Program Meal Pattern Chart

	GRADES K-5	GRADES 6-8	GRADES 9-12			
Food Components	Amount of Food <sup>α</sup> per Week					
	(Minimum per day)					
Fruits (cups) <sup>b</sup>	2½ (½)	2½ (½)	5 (1)			
Vegetables (cups) <sup>b</sup>	3¾ (¾)	3¾ (¾)	5 (1)			
Dark green <sup>c</sup>	1/2	1/2	1/2			
Red/Orange°	3/4	3/4	11/4			
Beans and peas (legumes)°	1/2	1/2	1/2			
Starchy°	1/2	1/2	1/2			
Other <sup>c,d</sup>	1/2	1/2	3/4			
Additional Vegetables to Reach Total <sup>e</sup>	1	1	11/2			
Grains (oz eq) <sup>f</sup>	8-9 (1)	8-9 (1)	10-12 (2)			
Meats/Meat Alternates (oz eq)	8-10 (1)	9-10 (1)	10-12 (2)			
Fluid Milk (cups) <sup>9</sup>	5 (1)	5 (1)	5 (1)			
Other Specification	ns: Daily Amount Base	ed on the Average for	a 5-Day Week			
Min-max calories (kcal) <sup>h</sup>	550-650	600-700	750-850			
Saturated fat (% of total calories) <sup>h</sup>	<10	<10	<10			
Sodium Interim Target 1 (mg) <sup>h</sup>	≤1,230	≤1,360	≤1,420			
Sodium Interim Target 1 A (mg) <sup>h,i</sup>	≤1,110	≤1,225	≤1,280			
Trans fat <sup>h</sup>	Nutrition label or manufacturer specifications must indicate zero grams of <i>trans</i> fat per serving.					

a Food items included in each group and subgroup and amount equivalents. Minimum creditable serving is 18 cup. b One-quarter cup of dried fruit counts as 12 cup of fruit; 1 cup of leafy greens counts as 12 cup of vegetables. No more than half of the fruit or vegetable offerings may be in the form of juice. All juice must be 100% full-strength. c Larger amounts of these vegetables may be served. d This category consists of "Other vegetables" as defined in paragraph (c)(2)(iii)(E) of this section. For the purposes of the NSLP, the "Other vegetables" requirement may be met with any additional amounts from the dark green, red/orange, and beans/peas (legumes) vegetable subgroups as defined in paragraph (c)(2)(iii) of this section. e Any vegetable subgroup may be offered to meet the total weekly vegetable requirement. f At least 80 percent of grains offered weekly must meet the whole grain-rich criteria specified in FNS guidance, and the remaining grain items offered must be enriched. g All fluid milk must be fat-free (skim) or low-fat (1 percent fat or less). Milk may be unflavored or flavored, provided that unflavored milk is offered at each meal service. h Discretionary sources of calories (solid fats and added sugars) may be added to the meal pattern if within the specifications for calories, saturated fat, trans fat, and sodium. Foods of minimal nutritional value and fluid milk with fat content greater than 1 percent are not allowed. i Sodium Interim Target 1A must be met no later than July 1, 2023 (SY 2023-2024).

## Blueberry Recipe Inspiration

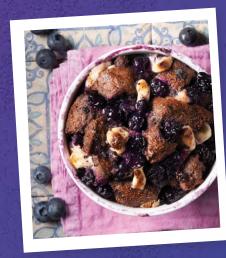
Unleash your culinary creativity with the endless recipe possibilities using blueberries. The recipes below can offer boundless inspiration to spruce up your school menus.



Blueberry Ancient Grain Cookie



Blueberry Cinnamon Streusel Toast



Blueberry Cream Cheese French Toast Bake



Savory Blueberry Chicken Crepes



Blueberry Playa Bowl



Breakfast Blue-rito



Blueberry and Turkey
Protein Bites



# Gwinnett County PSD Case Study

The U.S. Highbush Blueberry Council recently partnered with Chef Rachel Petraglia, Culinary Coordinator/Executive Chef for Gwinnett County Public School District, which covers greater metro Atlanta and includes 139 K-12 schools and over 177,000 students, to bring more blueberries to their menus. This partnership sparked excellent menu innovation and resulted in two new permanent menu items, Blueberry Overnight Oats and a Blueberry Smoothie, as well as a number of additional menu integrations for blueberries.

Specifically, frozen blueberries proved to be an impressively labor-efficient and cost-effective option. "With frozen blueberries, there's no waste. We use them year-round in anything, and even use the liquid that we drain from thawing them for lemonade and barbecue sauce," said Chef Rachel. In addition to the weekly menued smoothies and overnight oats, Chef Rachel's team has been utilizing blueberries in vinaigrettes, salads, sauces, and fruit bakes. She explains, "From a back-of-house perspective, our newest managers didn't even need to be trained on how to thaw and use frozen blueberries because the berries and their uses were so intuitive." Chef Rachel also shared, "Initially we worried that blueberries might be more expensive, but we found that frozen blueberries were right in line with many other fruits we were using, like canned pineapple and frozen peaches."

When asked how these menu items were received, Chef Rachel said, "Blueberries played so well throughout the district. From students to teachers to principals ... blueberries, being colorful and a superfruit yet still approachable, have been easy to sell and market. We will definitely keep using blueberries on our menus."







# **Gwinnett County's Winning Recipes**



### **Blueberry Overnight Oats**



Servings: 50

- **Ounces** Breakfast oatmeal, uncooked
- Ounces Brown sugar
- 2.25 Ounces Cinnamon, ground
- 74 fl Ounces 2% Milk
- 250 Ounces Vanilla yogurt
  - Ounces Blueberries, frozen thawed before use, excess liquid discarded
- 1. In a large mixing bowl, combine oats, brown sugar, and cinnamon.
- 2. Add milk and yogurt, combine.
- 3. Portion mixture into 12-ounce cups 3/4 cup each.
- 4. Top with 1/4 cup blueberries.
- 5. Cover and refrigerate overnight.
- 6. Serve. Optional: garnish with brown sugar.

### **Blueberry Smoothie**



- 18.75 Pounds Blueberries, frozen6.25 Gallons Vanilla yogurt
- 4 Ounces Clover honey
- 1. Place blueberries in large blender and blend for 4 minutes or until smooth.
- 2. Add yogurt and honey to blender. Blend 1 minute.
- 3. Portion into 12-ounce cups. Hold in chiller

Servings: 100



## Blueberry Nutrition: Health Benefits of This Superfood



One serving (a handful or a cup) of blueberries:

- Contains just 80 calories and only naturally occurring sugars
- Contributes essential nutrients including vitamin C, vitamin K, manganese, and phytonutrients called polyphenols
- The group of polyphenols includes anthocyanins (163mg/100g), which are compounds that give blueberries their blue color
- ls a good source of fiber

For more information regarding blueberry nutrition, please visit https://healthprofessionals.blueberry.org/







## Marketing Materials

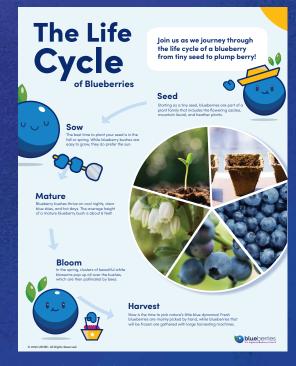
(digital, print-ready files)



(a) - Blueberries nutrition infographic



(b) - Cafeteria poster



(c) - Life cycle handout



## **Blueberry Activities**

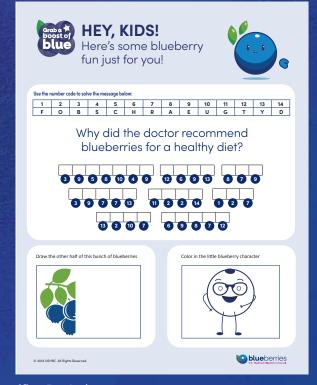
for Students



(d) - Blossoming blueberry maze



(e) - Blueberry word search



(f) - Brain buster