Indicate whether each food item meets the **whole grain-rich (WGR) general standard** or whether you need to obtain a product formulation statement (PFS) from the manufacturer to provide more information. To meet the WGR general standard, a product must comply with three criteria:

- 1. contains **at least 50 percent whole grains** by weight (a whole grain is the first ingredient or if water is the first ingredient, the second ingredient must be a whole grain);
- 2. any remaining grain ingredients are enriched; and
- 3. any **noncreditable grain ingredients comply with limit of** less than 2 percent of the product formula (less than 3.99 grams for Groups A-G and less than 6.99 grams for Groups H and I).

Ingredients Statement	Is Product WGR?
Product 1 – All Natural Whole-Wheat Pasta Ingredients: WHOLE GRAIN WHEAT FLOUR, WHEAT FLOUR, OAT FIBER.	☐ Yes ☐ No ☑ PFS Needed WGR Criteria: ☑ WGR Criterion 1 – WHOLE GRAIN ☑ WGR Criterion 2 – ENRICHED ☐ WGR Criterion 3 – NONCREDITABLE
	Whole-wheat flour is the first and only grain ingredient (criteria 1 and 2). This product contains two noncreditable grains (wheat flour and oat fiber). To determine if this product meets criterion 3, the menu planner must obtain a PFS from the manufacturer. If the combined weight of the wheat flour and oat fiber is less than 6.99 grams, this product complies with the noncreditable grains limit (criterion 3) and meets the WGR definition.
	Products containing noncreditable grains in amounts more than 2 percent of the product formula (6.99 grams for groups H and I) cannot contribute toward the reimbursable meal.

Ingredients Statement

Product 2 – Whole Grain Chicken Corn Dog

Batter Ingredients: Water, WHOLE WHEAT FLOUR, WHOLE GRAIN

CORN, vegetable oil, sugar, contains 2% or less of leavening (sodium acid pyrophosphate, sodium bicarbonate), salt, ascorbic acid, egg white, dried honey, artificial flavor.

Chicken Frank Ingredients: Mechanically separated chicken, water, corn syrup solids, contains less than 2% of spices, salt, sodium phosphate, potassium chloride, flavorings, sodi um diacetate, sodium erythorbate, sodium nitrite. Contains wheat.

Is Product WGR?

✓ Yes □ No □ PFS Needed

WGR Criteria:

☑ WGR Criterion 1 – WHOLE GRAIN

☑ WGR Criterion 2 – ENRICHED

☑ WGR Criterion 3 – NONCREDITABLE

Corn dogs are combination foods because they contribute to both the grains and meat/meat alternates components. To review this product for compliance with WGR requirement, we only need to look at the grain ingredients in the batter (grains component).

Whole-wheat flour is the first grain ingredient in the batter and all other grains (whole grain corn) are whole (criteria 1 and 2). There are no noncreditable grains (criterion 3).

Remember that if the first ingredient of a grain product is water, a whole grain may be listed as the second ingredient and still meet the criteria.

Product 3 – Whole Wheat Bagel

Ingredients: WHOLE-WHEAT FLOUR, sugar, wheat gluten. Contains 2% or less of each of the following: honey, salt, YELLOW CORN FLOUR, yeast, molasses, diacetyl tartaric acid esters of mono-diglycerides (datem), ascorbic acid, mono-and diglycerides, l-cysteine, enzymes.



Yes No PFS Needed

WGR Criteria:

☑ WGR Criterion 1 – WHOLE GRAIN

☑ WGR Criterion 2 – ENRICHED

☑ WGR Criterion 3 – NONCREDITABLE

Whole-wheat flour is the first and only grain ingredient (criteria 1 and 2). This product contains only one noncreditable grain (yellow corn flour) listed after the statement "contains 2% or less of," and therefore complies with the noncreditable grains limit (criterion 3).

Ingredients Statement Is Product WGR? Product 4 – Brand A White Whole Wheat Bread Sticks Ingredients: WHOLE WHEAT FLOUR, UNBLEACHED UNBROMATED ENRICHED WHEAT FLOUR (WHEAT Is Product WGR? WGR Criteria: ✓ WGR Criterion 1 – WHOLE GRAIN ✓ WGR Criterion 2 – ENRICHED

IRON, THIAMINE MONONITRATE, RIBOFLAVIN, ENZYMES, FOLIC

FLOUR, NIACIN, REDUCED

ACID), honey, yeast, salt, dough conditioners (mono & diglycerides, datem, l-cysteine, ascorbic acid, enzymes), MODIFIED FOOD STARCH, FAVA BEAN FLOUR, flavor (natural flavor, modified vegetable gum, hydrolyzed starch, maltodextrin), MALTED BARLEY FLOUR, dextrose, RYE FLOUR.

Whole wheat flour is the first ingredient after water (criterion 1). The second ingredient is enriched flour (criterion 2).

☐ WGR Criterion 3 – NONCREDITABLE

This product contains **four noncreditable grains** (modified food starch, fava bean flour, malted barley flour, rye flour). To determine if this product meets criterion 3, the menu planner must obtain a PFS from the manufacturer. If the combined weight of the modified food starch, fava bean flour, malted barley flour, rye flour is less than 3.99 grams, this product complies with the noncreditable grains limit (criterion 3) and meets the WGR definition.

Products containing noncreditable grains in amounts more than 2 percent of the product formula (3.99 grams for groups A-G) cannot contribute toward the reimbursable meal.

Product 5 – Brand B White Whole-Wheat Bread Sticks

Ingredients: WHOLE WHEAT FLOUR, WATER, ENRICHED UNBLEACHED WHEAT FLOUR (WHEAT FLOUR, MALTED BARLEY FLOUR, NIACIN, IRON AS FERROUS SULFATE,



THIAMINE MONONITRITE, ENZYME, RIBOFLAVIN, FOLIC ACID), yeast, sugar, wheat gluten. Contains less than 2% of the following: soybean oil, salt, OAT FIBER, honey, sodium stearoyl lactylate, datem, ascorbic acid, enzyme. May contain milk, soy, egg and sesame.

✓ Yes * □ No □ PFS Needed

WGR Criteria:

☑ WGR Criterion 1 – WHOLE GRAIN

☑ WGR Criterion 2 – ENRICHED

☑ WGR Criterion 3 – NONCREDITABLE

Whole-wheat flour is the first grain ingredient (criterion 1). The second ingredient is enriched flour (criterion 2).

This product contains only **one noncreditable grain** (oat fiber) listed after the statement "contains 2% or less of," and therefore complies with the noncreditable grains limit (criterion 3).

This shows the importance of checking each individual product. You cannot assume that similar products are the same. Even though products 4 and 5 are both white whole-wheat bread stick, they have different ingredients and one requires a PFS while the other does not.

Ingredients Statement Is Product WGR? Product 6 - Whole-grain Cereal Bar ✓ Yes □ No □ PFS Needed Ingredients: WHOLE GRAIN ROLLED WGR Criteria: OATS, brown sugar, CRISP BROWN **☑** WGR Criterion 1 – WHOLE GRAIN RICE, WHOLE GRAIN ROLLED **☑** WGR Criterion 2 – ENRICHED WHEAT, soybean oil, WHOLE **✓** WGR Criterion 3 – NONCREDITABLE WHEAT FLOUR, almonds, water, freeze dried bananas, WHOLE CORN FLOUR, sodiumbicarbonate, malted barley Whole-grain rolled oats is the first grain extract, soy lecithin, natural flavor, caramel color, alpha ingredient and all other grains (crisp tocopherol acetate, BHT. brown rice, whole-grain rolled wheat, whole-wheat flour and whole corn flour) listed are also whole (criteria 1 and 2). There are no noncreditable grains (criterion 3). **Product 7 – Reduced Carb Wheat** ☐ Yes ☑ No ☐ PFS Needed Tortilla WGR Criteria: Ingredients: Water, MODIFIED FOOD ☐ WGR Criterion 1 – WHOLE GRAIN **STARCH**, WHOLE-WHEAT **☑** WGR Criterion 2 – ENRICHED FLOUR, wheat gluten, powdered ☐ WGR Criterion 3 – NONCREDITABLE cellulose, hydrogenated soybean oil, caramel color, wheat protein isolate This product does not have a whole grain (wheat gluten, lactic acid, sulfite), sodium bicarbonate, contains as the first ingredient (criterion 1). There 1% or less of salt, cellulose gum, CORNSTARCH, distilled are no grains other than whole-wheat flour monoglycerides. so it meets criterion 2. It contains modified food starch as the first ingredient after water, and also contains cornstarch. Modified food starch and cornstarch are noncreditable grains, and must be less than 2 percent of the product formula (i.e., no more than 3.99 grams) for the product to count as the grains component.

Is Product WGR? **Ingredients Statement** Product 8 - Whole-Grain Cheese Pizza ☐ Yes ☐ No ☐ PFS Needed Ingredients: **CRUST** WGR Criteria: (FLOUR BLEND ☐ WGR Criterion 1 – WHOLE GRAIN **WHOLE WHEAT ☑** WGR Criterion 2 – ENRICHED FLOUR, ENRICHED ☐ WGR Criterion 3 – NONCREDITABLE WHEAT FLOUR **{BLEACHED WHEAT** This product is a "combination food" – it contains FLOUR, MALTED other food groups besides the grains component BARLEY FLOUR. (cheese, cheese substitute from the meat/meat NIACIN, REDUCED IRON, THIAMINE alternates component and tomato sauce from the MONONITRATE, RIBOFLAVIN, FOLIC ACID}, vegetables component). To review this product for water, soybean oil, dextrose, baking powder, yeast, salt, compliance with the WGR requirement, we only dough conditioners [WHEAT FLOUR, salt, soy oil, need to look at the grain ingredients (crust). ascorbic acid, wheat gluten). SHREDDED For criterion 1, this product contains a **flour blend** MOZZARELLA CHEESE (Pasteurized part skim of whole-wheat flour and enriched flour. We need to milk, cheese cultures, salt, enzymes). SHREDDED know the weight of each individual ingredient in MOZZARELLA CHEESE SUBSTITUTE (Water, oil the flour blend. The manufacturer's PFS must [soybean oil, partially hydrogenated soybean oil with document that the weight of the whole-wheat flour is citric acid], casein, milk protein concentrate, modified more than the weight of the soybean oil. food starch, contains 2% or less of the following: sodium aluminum phosphate, salt, lactic acid, To meet criterion 3, the manufacturer's PFS must mozzarella cheese type flavor [cheese {milk, culture, document that the weight of the wheat flour is less rennet, salt}, milk solids, disodium phosphate], than 3.99 grams. disodium phosphate, sorbic acid. SAUCE (Water, The **modified food starch** is listed as an ingredient tomato paste [not less than 28% NTSS], pizza seasoning in the "sauce" so it does not count toward the [salt, sugar, spices, dehydrated onion, guar and xanthan noncreditable grains because it is not part of the gum, garlic powder, potassium sorbate, citric acid, "crust." tricalcium phosphate and soybean oil {prevent caking}]. MODIFIED FOOD STARCH). Contains: wheat, milk, and soy.

Ingredients Statement

Product 9 – Whole-Grain Ready-To-Eat Cereal

Ingredients: WHOLE GRAIN
WHEAT, sugar, BROWN
RICE FLOUR, WHOLE
GRAIN OATS, honey, canola
oil, maltodextrin, salt, corn
syrup, cinnamon, barley malt
syrup, barley malt extract, color
added, soy lecithin, artificial flavor, baking soda,
trisodium phosphate, vitamin E (mixed tocopherols) and
BHT added to preserve freshness.

Vitamins and Minerals: Calcium Carbonate, Vitamin E acetate, a **B VITAMIN** (**NIACINAMIDE**), Vitamin C (sodium ascorbate), **IRON** (a mineral nutrient), Vitamin B6 (pyridoxine hydrochloride, **VITAMIN B2** (**RIBOFLAVIN**), **VITAMIN B1** (thiamin mononitrate), **FOLIC ACID**, Vitamin A (palmitate), Vitamin B12, Vitamin D3.

Is Product WGR?

✓ Yes
☐ No
☐ PFS Needed

WGR Criteria:

☑ WGR Criterion 1 – WHOLE GRAIN

☑ WGR Criterion 2 – ENRICHED

☑ WGR Criterion 3 – NONCREDITABLE

To meet the WGR criteria, ready-to-eat (RTE) breakfast cereals must list a whole grain first in the ingredient list and the cereal must be fortified. This cereal meets both requirements.

Whole-grain wheat is the first grain ingredient and the other grain ingredients (brown rice flour and whole grain oats) are whole grains (criteria 1 and 2). There are no noncreditable grains (criterion 3).

We know it is fortified because it contains the five **enrichment** nutrients (iron, thiamin, riboflavin, niacin and folic acid) and seven **additional** nutrients: Calcium Carbonate, Vitamin E acetate Vitamin C (sodium ascorbate), Vitamin B6 (pyridoxine hydrochloride, Vitamin A (palmitate), Vitamin B12, Vitamin D3.

Product 10 - Blueberry Muffin

Ingredients: WHOLE-WHEAT FLOUR, sugar, eggs, water, blueberries, enriched flour (flour, malted barley flour, niacin, reduced iron, thiamin mononitrate, riboflavin, folic



acid), invert sugar, soybean oil, contains 2% or less of: palm oil, canola oil, propylene glycol mono- and diesters of fats and fatty acids, OAT FIBER, leavening (baking soda, sodium aluminum phosphate, monocalcium phosphate), mono- and diglycerides, MODIFIED FOOD STARCH, potassium sorbate (preservative), sodium alginate, salt, soy lecithin, natural and artificial flavor, sodium stearoyl lactylate, WHEAT STARCH, blackberry juice concentrate, blueberry juice concentrate, malic acid, enzymes

☐ Yes ☐ No ☑ PFS Needed

WGR Criteria:

☑ WGR Criterion 1 – WHOLE GRAIN

☑ WGR Criterion 2 – ENRICHED

☐ WGR Criterion 3 – NONCREDITABLE

Whole wheat flour is the first ingredient (criterion 1) and the product contains enriched flour (criterion 2).

This product contains three noncreditable grains (oat fiber, modified food starch and wheat starch). To determine if this product meets criterion 3, the menu planner must obtain a PFS from the manufacturer. If the combined weight of the oat fiber, modified food starch and wheat starch) is less than 3.99 grams, this product complies with the noncreditable grains limit (criterion 3) and meets the WGR definition.

Products containing noncreditable grains in amounts more than 2 percent of the product formula (3.99 grams for groups A-G) cannot contribute toward the reimbursable meal.



The Connecticut State Department of Education's (CSDE) *What's for Lunch* workshop training materials are available on the CSDE's Meal Pattern Training Materials Web page. This worksheet is available at www.sde.ct.gov/sde/lib/sde/pdf/deps/nutrition/nslp/wfl/wflws3A.