# 1 Supplemental Material

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3	Urinary glyphosate and AMPA levels in a cross-sectional study of
4	postmenopausal women: associations with organic eating behavior and dietary
5	intake
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## 33 List of food and beverage items included in additional categories

#### Corn

Corn flakes, NFS
Corn Puffs
Corn, cooked, NS as to form, NS as to color, NS as to fat added in cooking
Corn, dried, cooked
Corn, white, cooked
Corn, yellow and white, cooked
Corn, yellow, cooked
Cornbread, made from home recipe
Cornbread, prepared from mix
Grits, cooked, corn or hominy, instant, fat not added in cooking
Mixed vegetables (corn, lima beans, peas, green beans, and carrots), cooked
Peas and corn, cooked, fat not added in cooking
Popcorn, any type
Salty snacks, corn based puffs and twists, cheese puffs and twists, lowfat
Salty snacks, corn or cornmeal base, corn chips, corn-cheese chips
Salty snacks, corn or cornmeal base, corn puffs and twists
Corn-cheese puffs and twists
Salty snacks, corn or cornmeal base, nuts or nuggets, toasted
Salty snacks, corn or cornmeal base, tortilla chips
Taco shell, corn
Tortilla, corn

## Oats

Bread, oat bran, toasted Bread, oatmeal Cheerios Cookie, oatmeal Cookie, oatmeal, with raisins Cracklin' Oat Bran Granola bar, lowfat, NFS Granola bar, NFS Granola bar, reduced sugar, NFS Granola with Raisins, lowfat, Kellogg's Granola, homemade Granola, lowfat, Kellogg's Granola, NFS Honey Bunches of Oats Honey Roasted Cereal Honey Bunches of Oats with Almonds, Post Honey Nut Cheerios

MultiGrain Cheerios Nature Valley Chewy Trail Mix Granola Bar Nature Valley Crunchy Granola Bar Nature Valley Granola, with fruit and nuts Nature Valley Sweet and Salty Granola Bar Oatmeal, cooked, any type Oats, raw Quaker Chewy Granola Bar

Quaker Oatmeal Squares (formerly Quaker Oat Squares)

Snack bar, oatmeal

#### Soy

**Balance Original Bar** Boost, nutritional drink, ready-to-drink Breakfast link, pattie, or slice, meatless Chicken, meatless, breaded, fried Clif Bar Coffee, latte W/ SOY MILK Coffee, latte, W/ SOY MILK, decaffeinated Edamame Ensure Plus, nutritional shake, ready-to-drink Herbalife, nutritional shake mix, high protein, powder Kashi GOLEAN Kashi GOLEAN Crunch Honey Almond Flax Milk, soy, any type Nutrition bar or meal replacement bar, NFS Nutritional drink or meal replacement, ready-to-drink, NFS PowerBar Protein powder, soy based, NFS Slim Fast Original Meal Bar Soybean curd Soybean curd, deep fried Soybean soup, miso broth Tea, NS as to type, unsweetened, W/ SOY MILK Tiger's Milk bar Tofu and vegetables (including carrots, broccoli, and/or dark-green leafy vegetables (no potatoes)), with soybased sauce (mixture) Vegetarian burger or patty, meatless, no bun Vegetarian burrito (made with meat substitute) Vegetarian stroganoff (made with meat substitute) Coffee

Blended coffee beverage, made with regular coffee, milk, and ice, sweetened

Cafe con leche

Cafe con leche prepared with sugar

Cappuccino

Cappuccino W/ 2% MILK

Cappuccino, decaffeinated

Coffee and cocoa (mocha), made from powdered instant mix, with whitener, presweetened

Coffee, decaffeinated, made from ground

Coffee, decaffeinated, made from powdered instant

Coffee, espresso

Coffee, espresso, decaffeinated

Coffee, Latte

Coffee, latte W/ 1% MILK

Coffee, latte W/ 2% MILK

Coffee, latte W/ SKIM MILK

Coffee, latte W/ WHOLE MILK

Coffee, latte, decaffeinated W/ 2% MILK

Coffee, latte, decaffeinated W/ SKIM MILK

Coffee, made from ground, equal parts regular and decaffeinated

Coffee, made from ground, regular

Coffee, made from liquid concentrate

Coffee, made from powdered instant mix, with whitener and low calorie sweetener

Coffee, made from powdered instant mix, with whitener and sugar, instant

Coffee, made from powdered instant, 50% less caffeine

Coffee, made from powdered instant, regular

Coffee, mocha

Coffee, mocha W/ WHOLE MILK

Coffee, regular, NS as to ground or instant

Coffee, regular, presweetened with sugar, pre-lightened

#### Теа

Half and Half beverage, half iced tea and half fruit juice drink (lemonade)

Tea, herbal

Tea, herbal, presweetened with low calorie sweetener

Tea, herbal, presweetened with sugar

Tea, hibiscus

Tea, leaf, decaffeinated, presweetened, NS as to sweetener

Tea, leaf, decaffeinated, unsweetened

Tea, leaf, presweetened with low calorie sweetener

Tea, leaf, presweetened with sugar

Tea, leaf, presweetened, NS as to sweetener

Tea, leaf, unsweetened

Tea, made from powdered instant, unsweetened

Tea, NS as to type, decaffeinated, presweetened with sugar

Tea, NS as to type, presweetened with low calorie sweetener

Tea, NS as to type, presweetened with sugar

Tea, NS as to type, presweetened, NS as to sweetener

Tea, NS as to type, unsweetened

Wine

Brandy Wine cooler Wine, dessert, sweet Wine, rice Wine, table, red Wine, table, white

# Beer

Alcoholic malt beverage, sweetened

### Spirits

Cocktail, NFS

Beer, lite

Gin Gin and Tonic

Liqueur with cream

Margarita

Martini

Rum

Vodka

Whiskey

34

36 **Supplemental Table 1.** Self-reported organic eating frequencies for six food groups, overall and stratified by

37 overall organic eating habits.

	Total		Overall Organic Eating		
	TOtal	Often/Always	Sometimes	Seldom/Never	
	N (%)	N (%)	N (%)	N (%)	
Fruit					
Often/Always	112 (33.1%)	96 (75.0%)	16 (15.7%)	0 (0.0%)	
Sometimes	79 (23.4%)	23 (18.0%)	56 (54.9%)	0 (0.0%)	
Seldom/Never	143 (42.3%)	6 (4.7%)	29 (28.4%)	108 (100.0%)	
Do not consume	4 (1.2%)	3 (2.3%)	1 (1.0%)	0 (0.0%)	
Vegetables					
Often/Always	110 (32.5%)	97 (75.8%)	13 (12.7%)	0 (0.0%)	
Sometimes	81 (24.0%)	25 (19.5%)	56 (54.9%)	0 (0.0%)	
Seldom/Never	146 (43.2%)	6 (4.7%)	32 (31.4%)	108 (100.0%)	
Do not consume	1 (0.3%)	0 (0.0%)	1 (1.0%)	0 (0.0%)	
Grains					
Often/Always	56 (16.6%)	43 (33.6%)	13 (12.7%)	0 (0.0%)	
Sometimes	48 (14.2%)	28 (21.9%)	20 (19.6%)	0 (0.0%)	
Seldom/Never	220 (65.1%)	47 (36.7%)	65 (63.7%)	108 (100.0%)	
Do not consume	14 (4.1%)	10 (7.8%)	4 (3.9%)	0 (0.0%)	
Meat					
Often/Always	61 (18.0%)	49 (38.3%)	12 (11.8%)	0 (0.0%)	
Sometimes	67 (19.8%)	36 (28.1%)	31 (30.4%)	0 (0.0%)	
Seldom/Never	188 (55.6%)	30 (23.4%)	50 (49.0%)	108 (100.0%)	
Do not consume	22 (6.5%)	13 (10.2%)	9 (8.8%)	0 (0.0%)	
Eggs					
Often/Always	114 (33.7%)	86 (67.2%)	28 (27.5%)	0 (0.0%)	
Sometimes	33 (9.8%)	13 (10.2%)	20 (19.6%)	0 (0.0%)	
Seldom/Never	183 (54.1%)	25 (19.5%)	50 (49.0%)	108 (100.0%)	
Do not consume	8 (2.4%)	4 (3.1%)	4 (3.9%)	0 (0.0%)	
Dairy					
Often/Always	64 (18.9%)	49 (38.3%)	15 (14.7%)	0 (0.0%)	
Sometimes	44 (13.0%)	22 (17.2%)	22 (21.6%)	0 (0.0%)	
Seldom/Never	205 (60.7%)	40 (31.3%)	57 (55.9%)	108 (100.0%)	
Do not consume	25 (7.4%)	17 (13.3%)	8 (7.8%)	0 (0.0%)	

38

39 Overall organic eating was based on the response to the overall question "How often do you eat organic food?"

40 while food group-specific categories were based on the response to questions for each food group, i.e. "How

41 often do you eat organic fruit?" Individuals who responded "Seldom/Never" to the overall question were not

42 asked food group-specific questions.

43 **Supplemental Table 2.** Association of demographic/behavioral variables with urinary glyphosate and AMPA levels. Base model adjusted for

44 urinary creatinine with a random effect for individual; adjusted model additionally adjusted for average total Kcal, average recall-specific Healthy

45 Eating Index (HEI), race/ethnicity, and physical activity level. BMI: body mass index, AMPA: aminomethylphosphonic acid

			phosate				1PA	
	Base mode	el	Adjusted mod	lel	Base mode	l	Adjusted mod	del
	Relative difference (95% CI)	р	Relative difference (95% CI)	р	Relative difference (95% CI)	р	Relative difference (95% CI)	р
Age	1.02 (0.99, 1.05)	0.16	1.02 (0.99, 1.05)	0.13	1.00 (0.97, 1.03)	0.89	1.001 (0.97, 1.03)	0.92
Race/Ethnicity								
Non-Hispanic White	Ref		Ref		Ref		Ref	
Asian	0.81 (0.54, 1.21)	0.30	0.81 (0.54, 1.20)	0.29	1.21 (0.81, 1.81)	0.36	1.26 (0.84, 1.88)	0.26
Hispanic	1.07 (0.77, 1.47)	0.70	1.04 (0.76, 1.44)	0.80	1.03 (0.75, 1.42)	0.85	1.01 (0.73, 1.39)	0.97
Other Race	0.60 (0.34, 1.06)	0.08	0.59 (0.33, 1.05)	0.07	0.53 (0.29, 0.94)	0.03	0.50 (0.28, 0.90)	0.02
Education								
College Graduate	Ref		Ref		Ref		Ref	
Some College	1.05 (0.78, 1.42)	0.74	0.97 (0.71, 1.32)	0.85	1.17 (0.87, 1.57)	0.31	1.09 (0.80, 1.49)	0.58
High School Graduate	1.21 (0.73, 1.98)	0.46	1.11 (0.65, 1.89)	0.71	1.27 (0.77, 2.10)	0.35	1.14 (0.66, 1.94)	0.64
Some High School	1.83 (0.81, 4.12)	0.15	1.71 (0.73, 4.03)	0.22	0.51 (0.23, 1.14)	0.10	0.49 (0.21, 1.15)	0.10
Median Estimated Annual Household Income								
Less than \$100,000	Ref		Ref		Ref		Ref	
\$100,000 - \$149,999	0.95 (0.72, 1.26)	0.73	0.94 (0.71, 1.25)	0.71	1.18 (0.89, 1.56)	0.24	1.18 (0.89, 1.57)	0.30
\$150,000 or more	0.87 (0.63, 1.22)	0.43	0.89 (0.63, 1.26)	0.53	1.00 (0.71, 1.39)	0.99	1.06 (0.75, 1.50)	0.82
BMI	1.01 (0.99, 1.03)	0.25	1.01 (0.99, 1.03)	0.44	1.01 (0.99, 1.03)	0.17	1.01 (0.99, 1.03)	0.25
Physical Activity								
<150 minutes/week	Ref		Ref		Ref		Ref	
≥150 minutes/week	0.77 (0.61, 0.98)	0.03	0.77 (0.61, 0.98)	0.04	0.83 (0.66, 1.06)	0.14	0.87 (0.68, 1.10)	0.25
Smoking Status					· · ·		· · · ·	
Never	Ref		Ref		Ref		Ref	
Former	1.01 (0.76, 1.34)	0.94	0.99 (0.75, 1.31)	0.96	0.80 (0.60, 1.05)	0.11	0.81 (0.61, 1.07)	0.13
Current	0.78 (0.43, 1.42)	0.42	0.73 (0.40, 1.33)	0.31	0.87 (0.48, 1.58)	0.65	0.89 (0.49, 1.63)	0.71
Fast Food Meals								
Less than 1 time/month	Ref		Ref		Ref		Ref	
1-3 times/month	0.95 (0.72, 1.26)		0.89 (0.67, 1.18)	0.42	1.07 (0.81, 1.41)	0.62	0.99 (0.74, 1.31)	0.92
1-3 times/week	1.19 (0.87, 1.64)	0.27	1.05 (0.75, 1.48)	0.76	1.24 (0.91, 1.71)	0.18	1.11 (0.79, 1.56)	0.55
4 or more times/week	2.14 (0.93, 4.90)	0.07	1.89 (0.82, 4.37)	0.14	3.94 (1.73, 8.98)	0.001	3.28 (1.43, 7.54)	0.00
Organic Eating Frequency								
Seldom/Never	1.23 (0.93, 1.64)	0.15	1.19 (0.89 <i>,</i> 1.59)	0.24	1.31 (0.99, 1.75)	0.06	1.20 (0.90, 1.60)	0.22
Sometimes	1.13 (0.85, 1.50)	0.42	1.11 (0.84, 1.49)	0.46	1.25 (0.94, 1.67)	0.13	1.21 (0.90, 1.61)	0.21
Often/Always	Ref		Ref		Ref		Ref	
Primary Drinking Water Source								
Bottled	Ref		Ref		Ref		Ref	
Tap (Filtered)	0.94 (0.73, 1.21)	0.65	0.96 (0.74, 1.24)	0.74	0.93 (0.72, 1.20)	0.58	0.92 (0.71, 1.19)	0.52
Tap (Unfiltered)	0.95 (0.62, 1.46)	0.82	0.92 (0.59, 1.42)	0.70	0.73 (0.48, 1.13)	0.16	0.71 (0.46, 1.10)	0.12

- 47 **Supplemental Table 3**. Association of quartile of consumption of major food groups with urinary glyphosate and
- 48 AMPA, stratified by self-reported food-group-specific organic eating habits. Adjusted for urinary creatinine, total
- 49 Kcal, recall-specific Healthy Eating Index (HEI), race/ethnicity, and physical activity level. AMPA:
- 50 aminomethylphosphonic acid

Food Group	Organic Eating	Glyphosa	te	AMPA		
		Relative difference (95% CI), adjusted model	Adjusted p	Relative difference (95% Cl), adjusted model	Adjusted p	
Fruit	Often/Always	0.91 (0.79, 1.05)	0.20	0.95 (0.80, 1.12)	0.52	
	Sometimes	1.09 (0.90, 1.33)	0.37	0.84 (0.68, 1.03)	0.10	
	Seldom/Never	0.98 (0.85, 1.14)	0.80	0.97 (0.82, 1.15)	0.73	
Vegetables	Often/Always	0.88 (0.75, 1.03)	0.11	0.98 (0.83, 1.16)	0.84	
	Sometimes	1.06 (0.90, 1.25)	0.47	0.95 (0.79, 1.14)	0.56	
	Seldom/Never	0.96 (0.83, 1.11)	0.59	1.09 (0.91, 1.29)	0.36	
Grains	Often/Always	1.28 (1.04, 1.57)	0.02	1.12 (0.88, 1.43)	0.36	
	Sometimes	1.14 (0.87, 1.48)	0.36	1.09 (0.83, 1.43)	0.53	
	Seldom/Never	1.13 (1.01, 1.27)	0.04	1.06 (0.92, 1.21)	0.44	
Meat/Poultry	Often/Always	0.91 (0.76, 1.10)	0.34	0.84 (0.70, 1.02)	0.09	
	Sometimes	0.88 (0.73, 1.06)	0.18	1.21 (0.98, 1.50)	0.08	
	Seldom/Never	0.88 (0.77, 0.99)	0.04	1.00 (0.87, 1.15)	0.99	
Eggs	Often/Always	1.03 (0.91, 1.16)	0.65	1.00 (0.87, 1.15)	0.97	
	Sometimes	1.13 (0.85, 1.50)	0.42	0.96 (0.68, 1.36)	0.83	
	Seldom/Never	0.99 (0.88, 1.11)	0.83	1.04 (0.91, 1.20)	0.54	
Dairy	Often/Always	1.02 (0.85, 1.22)	0.87	0.96 (0.78, 1.18)	0.70	
	Sometimes	0.99 (0.76, 1.29)	0.94	1.01 (0.77, 1.33)	0.94	
	Seldom/Never	0.96 (0.86, 1.08)	0.48	0.90 (0.79, 1.03)	0.12	

53 Supplemental Table 4. Sensitivity analysis: association of dietary and demographic/behavioral variables with

54 urinary glyphosate and AMPA levels, excluding poor-quality dietary recalls (remaining N = 461 recalls). Adjusted

55 for urinary creatinine, total Kcal, recall-specific Healthy Eating Index (HEI), race/ethnicity, and physical activity

56 level. BMI: body mass index, AMPA: aminomethylphosphonic acid

	Glyphosate				
	Relative difference (95% Cl), adjusted model	Adjusted p	Relative difference (95% CI), adjusted model	Adjusted p	
Dietary Recall					
Characteristics					
Major Food Groups					
(Quartile)					
Fruit	0.99 (0.89, 1.10)	0.86	0.90 (0.80, 1.01)	0.08	
Vegetables	0.96 (0.87, 1.07)	0.48	0.98 (0.88, 1.10)	0.77	
Grains	1.15 (1.04, 1.28)	0.01	1.08 (0.96, 1.22)	0.21	
Whole Grains	1.12 (1.02, 1.24)	0.02	0.97 (0.87, 1.08)	0.58	
Refined Grains	1.12 (1.00, 1.26)	0.04	1.19 (1.05, 1.35)	0.01	
Protein Foods	0.90 (0.81, 0.99)	0.03	1.05 (0.94, 1.17)	0.42	
Meat and Poultry	0.91 (0.82, 1.00)	0.05	1.02 (0.91, 1.13)	0.78	
Dairy	0.94 (0.85, 1.04)	0.22	0.92 (0.83, 1.03)	0.14	
Selected Foods and	· · ·				
Beverages (Yes/No)					
Legumes	1.22 (0.96, 1.55)	0.10	0.97 (0.74, 1.27)	0.81	
Corn	0.88 (0.71, 1.11)	0.29	0.67 (0.52, 0.87)	0.003	
Oats	1.67 (1.27, 2.20)	<0.001	1.12 (0.83, 1.51)	0.47	
Eggs	0.95 (0.76, 1.19)	0.64	1.06 (0.82, 1.37)	0.67	
Soy Protein	0.93 (0.71, 1.22)	0.62	1.31 (0.97, 1.77)	0.08	
Soy Protein, Milk, Other	0.89 (0.71, 1.12)	0.32	1.19 (0.93, 1.54)	0.17	
Soy Foods					
Nuts and Seeds	1.09 (0.87, 1.36)	0.46	1.04 (0.81, 1.34)	0.76	
Coffee	1.07 (0.84, 1.36)	0.59	1.01 (0.78, 1.31)	0.93	
Теа	0.98 (0.77, 1.23)	0.83	1.10 (0.86, 1.42)	0.44	
Alcohol	1.05 (0.82, 1.34)	0.70	1.63 (1.26, 2.12)	<0.001	
Wine	1.05 (0.81, 1.37)	0.71	1.63 (1.22, 2.16)	0.001	
Beer	0.84 (0.54, 1.31)	0.45	1.37 (0.84, 2.23)	0.22	
Spirits	1.23 (0.80, 1.89)	0.35	1.25 (0.77, 2.02)	0.36	
Diet Quality					
HEI (for individual					
dietary recall)	1.00 (0.99, 1.01)	0.95	0.99 (0.99, 1.00)	0.18	
Individual Characteristics					
Age	1.03 (1.00, 1.06)	0.08	1.01 (0.98, 1.04)	0.56	
Race/Ethnicity					
Non-Hispanic White	Ref		Ref		
Asian	0.73 (0.48, 1.13)	0.16	1.08 (0.69, 1.67)	0.74	
Hispanic	1.10 (0.78, 1.55)	0.58	0.98 (0.69, 1.38)	0.89	
Other Race	0.62 (0.32, 1.19)	0.15	0.44 (0.22, 0.87)	0.02	
Education					
College Graduate	Ref		Ref		
Some College	0.90 (0.64, 1.25)	0.52	1.06 (0.76, 1.48)	0.74	
High School Graduate	1.14 (0.65, 2.00)	0.64	1.15 (0.64, 2.04)	0.64	
Some High School	1.67 (0.67, 4.15)	0.27	0.56 (0.23, 1.41)	0.22	

Median Estimated				
Annual Household				
Income				
Less than \$100,000	Ref		Ref	
\$100,000 - \$149,999	0.99 (0.73, 1.34)	0.95	1.21 (0.89, 1.63)	0.23
\$150,000 or more	1.04 (0.72, 1.51)	0.84	1.06 (0.73, 1.54)	0.77
BMI	1.00 (0.98, 1.02)	0.95	1.01 (0.99, 1.03)	0.57
Physical Activity				
<150 minutes/week	Ref		Ref	
≥150 minutes/week	0.79 (0.61, 1.02)	0.07	0.86 (0.67, 1.12)	0.26
Smoking Status				
Never	Ref		Ref	
Former	1.04 (0.77, 1.40)	0.79	0.84 (0.62, 1.14)	0.26
Current	0.79 (0.41, 1.50)	0.47	0.77 (0.40, 1.49)	0.44
Fast Food Meals				
Less than 1 time/				
month	Ref		Ref	
1-3 times/month	0.83 (0.61, 1.12)	0.22	0.93 (0.68, 1.27)	0.63
1-3 times/week	1.09 (0.76, 1.56)	0.63	1.06 (0.74, 1.54)	0.74
4 or more times/week	1.39 (0.55 <i>,</i> 3.49)	0.49	2.06 (0.80, 5.30)	0.13
Organic Eating				
Seldom/Never	1.25 (0.91, 1.68)	0.17	1.27 (0.92, 1.73)	0.14
Sometimes	1.21 (0.89, 1.65)	0.23	1.19 (0.86, 1.62)	0.30
Often/Always	Ref		Ref	
Primary Drinking Water				
Source				
Bottled	Ref		Ref	
Tap (Filtered)	0.93 (0.70, 1.22)	0.60	0.88 (0.66, 1.17)	0.37
Tap (Unfiltered)	0.94 (0.60, 1.48)	0.80	0.73 (0.46, 1.16)	0.18