



# Impact of the Revised WIC Food Package on Small WIC Vendors: Insight From a Four-State Evaluation



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# Impact of the Revised WIC Food Package on Small WIC Vendors: Insight From a Four-State Evaluation

## ADDENDUM

This report is an addendum to a WIC food package evaluation study conducted by Altarum Institute entitled, Impact of the Revised WIC Food Package on Small WIC Vendors: Insight From a Four-State Evaluation. The purpose of the addendum is to provide additional data analyzed for this study, which did not appear in the full report.

**To download a full copy of the report, visit [www.altarum.org/obesityresources](http://www.altarum.org/obesityresources).**

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**Table 1. Percentage of Small WIC Stores with Inventoried Food Items Available, Pre- and Post-Implementation (N = 211)\***

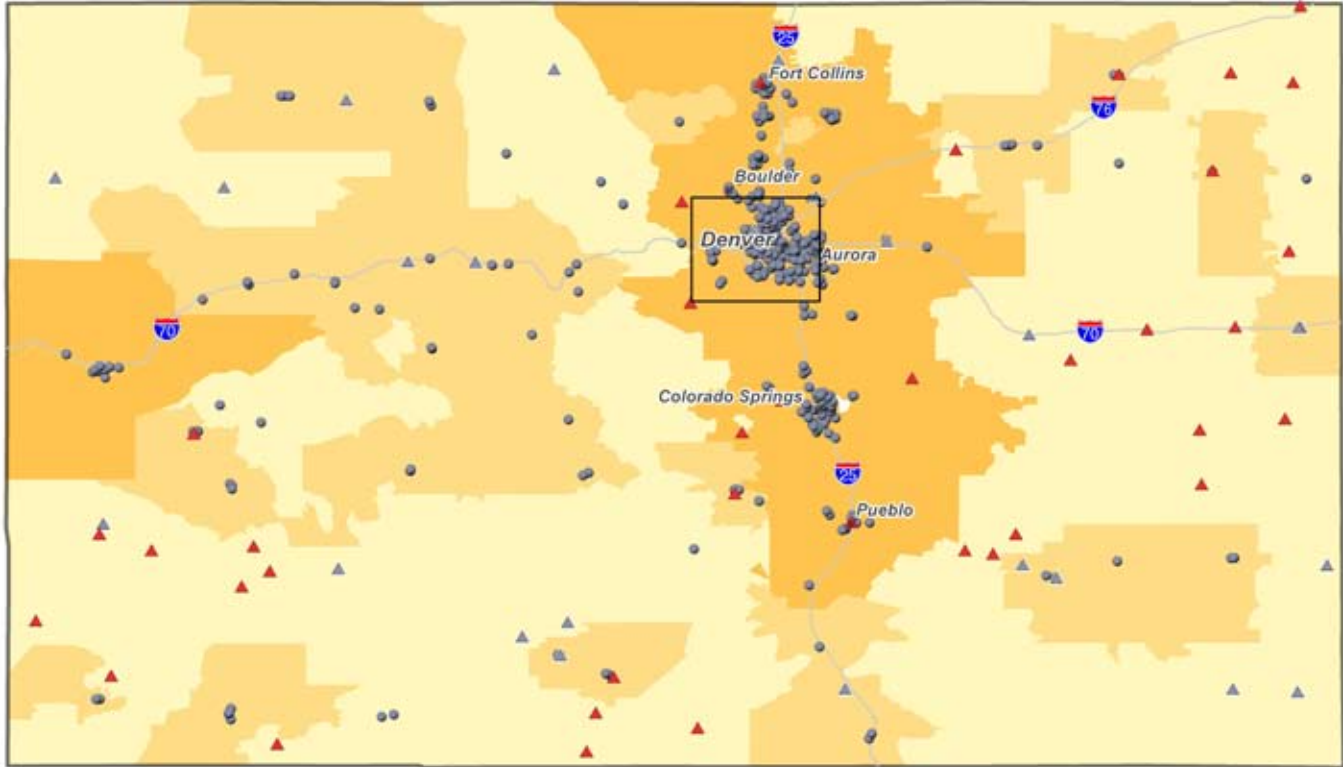
Food Item	Pre	Post	Δ Pre to post %	p-value
	n (%)			
<b>Milk</b>				
Skim	97 (46.0)	95 (45.0)	-0.9	ns
Low-fat	97 (46.0)	132 (62.6)	16.6	<.0001
Reduced-fat	205 (97.2)	200 (94.8)	-2.4	ns
Soy Milk	43 (20.4)	67 (31.8)	11.4	<.0001
<b>Fruit</b>				
Fresh	126 (59.7)	153 (72.5)	12.8	0.0001
Canned	197 (93.4)	205 (97.2)	3.8	0.011
Frozen	65 (30.8)	85 (40.3)	9.5	0.001
<b>Vegetables</b>				
Fresh	169 (80.5)	180 (85.3)	5.2	0.041
Canned	211 (100.0)	210 (99.5)	-0.5	ns
Frozen	152 (72.0)	168 (79.6)	7.6	0.009
<b>Grains</b>				
Whole wheat bread, any size	123 (58.3)	183 (86.7)	28.4	<.0001
Whole wheat bread, 16 oz.	14 (6.6)	121 (57.4)	50.8	<.0001
Whole wheat tortilla	11 (5.2)	52 (24.6)	19.4	<.0001
Corn tortillas	67 (31.8)	87 (41.2)	9.4	0.001
Brown rice	99 (47.8)	175 (82.9)	35.3	<.0001
<b>Tofu</b>				
	18 (8.6)	19 (9.0)	0.0	ns

\*Excludes Colorado because baseline data is not available

## Data by State

# Colorado

**Figure 1. Map of Small and Large WIC Vendors Authorized in Colorado**



WIC Vendor Size		RUCA Classification	
▲	Small, Inventoried	□	Isolated
▲	Small, Not Inventoried	□	Small & Large Rural
●	Large, Not Inventoried	□	Urban



**Table 2. Characteristics of All Colorado WIC Vendors at Approximately 6 Months, Pre- and Post-Implementation**

		<b>6-Months prior to implementation</b>	<b>6-Months post-implementation</b>	<b>Net change</b>
		<b>N (%)</b>	<b>N (%)</b>	
<b>Total WIC vendors</b>		421 (100.0)	419 (100.0)	-2
<b>By vendor size</b>				
1 register		3 (0.7)	3 (0.7)	0
2 registers		17 (4.0)	17 (4.1)	0
3 registers		20 (4.8)	20 (4.8)	0
4 registers		19 (4.5)	19 (4.5)	0
5+ registers		362 (86.0)	360 (85.9)	-2
<b>By geography</b>				
Urban		294 (69.8)	291 (69.5)	-3
Rural		127 (30.2)	128 (30.6)	+1
<b>By vendor size and geography</b>				
1 register	Urban	2 (66.7)	2 (66.7)	0
	Rural	1 (33.3)	1 (33.3)	0
2 registers	Urban	0 (0.0)	0 (0.0)	0
	Rural	17 (100.0)	17 (100.0)	0
3 registers	Urban	4 (20.0)	4 (20.0)	0
	Rural	16 (80.0)	16 (80.0)	0
4 registers	Urban	5 (26.3)	4 (21.1)	-1
	Rural	14 (73.7)	15 (79.0)	+1
5+ registers	Urban	283 (78.2)	281 (78.1)	-2
	Rural	79 (21.8)	79 (21.9)	0

**Table 3. Mean WIC Food Availability and Quality Index (WFAQI) Scores Among Small Colorado WIC Stores (N = 37)**

	N	Post1	Post2	Difference (post1-post2)	Intervention	
		Mean (SD)	Mean (SE)	t	P*	
Colorado	37	--	27.1 (3.7)	--	--	--

\*Paired sample t-tests

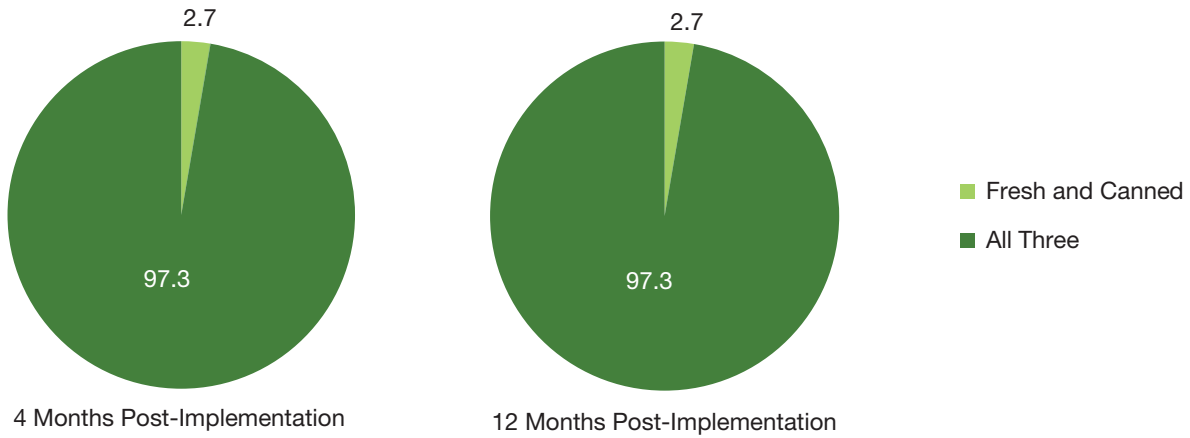
**Table 4. Percentage of Small Colorado WIC Stores with Inventoried Food Items Available, Pre- and Post-Implementation (N = 37)**

Food Item	Post1	Post2	Δ Post1 to post2 %	p-value
	n (%)	n (%)		
<b>Milk</b>				
Skim	32 (86.5)	32 (86.5)	0.0	ns
Low-fat	33 (89.2)	31 (83.8)	-5.4	ns
Reduced-fat	37 (100.0)	37 (100.0)	0.0	--
Soy	26 (72.2)	29 (78.4)	8.3	ns
<b>Fruit</b>				
Fresh	37 (100.0)	37 (100.0)	0.0	--
75% or more acceptable	34 (91.9)	36 (97.3)	5.4	ns
Canned	37 (100.0)	37 (100.0)	0.0	--
Frozen	36 (97.3)	36 (97.3)	0.0	ns
<b>Vegetables</b>				
Fresh	37 (100.0)	36 (97.3)	-2.7	ns
75% or more acceptable	31 (83.7)	36 (97.3)	13.5	0.0232
Frozen	37 (100.0)	37 (100.0)	0.0	--
Canned	37 (100.0)	37 (100.0)	0.0	--
<b>Grains</b>				
Whole wheat bread, any size	36 (97.3)	37 (100.0)	-2.7	ns
Whole wheat bread, 16 oz.	7 (18.9)	21 (56.8)	37.9	0.0004
Whole wheat tortilla	17 (46.0)	19 (51.4)	5.4	ns
Corn tortillas	31 (83.8)	33 (89.2)	5.4	ns
Brown rice	34 (91.9)	36 (97.3)	5.4	ns
<b>Tofu</b>	9 (24.3)	11 (29.7)	5.4	ns

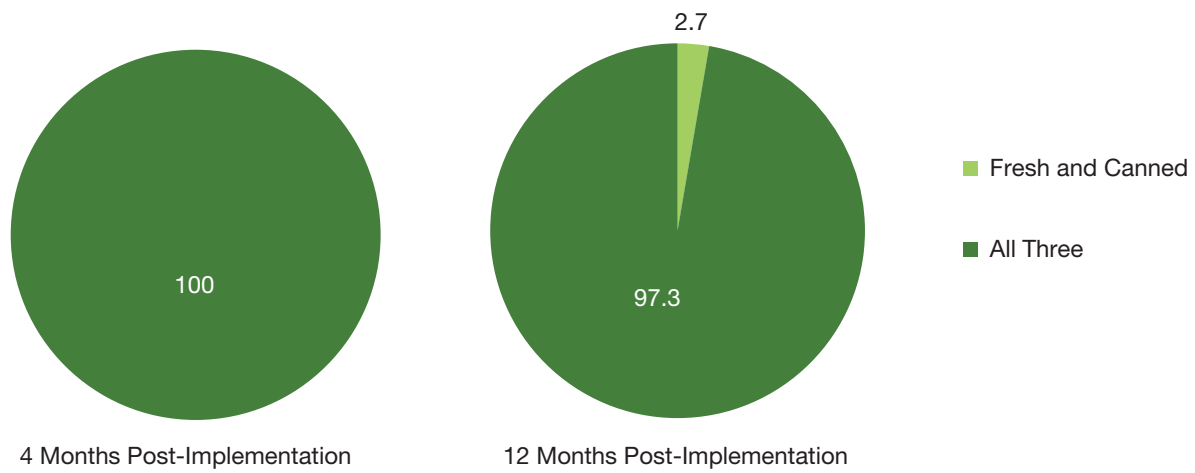
**Table 5. Percentage of Small Colorado WIC Stores with Milk Available, Pre- and Post-Implementation (N = 37)**

Milk Type	N	Post1	Post2	Difference (post1-post2)	Intervention	
		Mean (SD)	Mean (SE)	Mean (SE)	t	P*
<b>Low-fat milk</b>						
Gallon	32	15.1 (11.3)	14.1 (12.5)	-1.4 (1.4)	-1.0	0.3131
Half gallon	32	11.2 (9.8)	11.6 (9.3)	-0.03 (1.1)	-0.03	0.9780
<b>High-fat milk</b>						
Gallon	37	40.8 (26.6)	44.6 (26.1)	3.9 (2.5)	1.6	0.1261
Half gallon	37	25.2 (15.8)	26.2 (12.6)	0.9 (1.9)	0.5	0.6269

**Figure 2. Types of Fruit Offered by Small Colorado WIC Stores, 4 and 12 Months Post-Implementation**

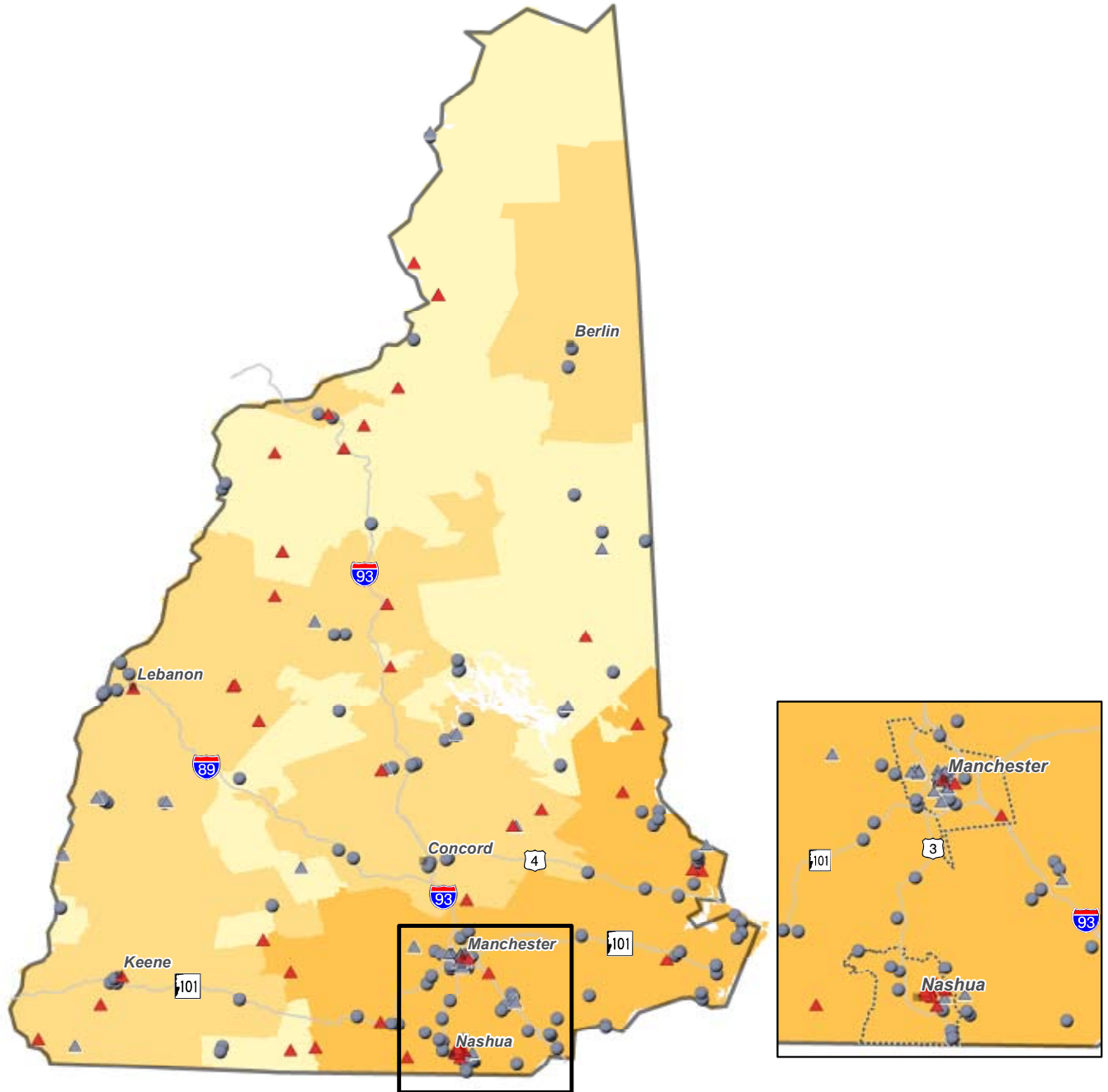


**Figure 3. Types of Vegetables Offered by Small Colorado WIC Stores, 4 and 12 Months Post-Implementation**



# New Hampshire

Figure 4. Map of Small and Large WIC Vendors Authorized in New Hampshire



WIC Vendor Size	RUCA Classification
▲ Small, Inventoried	□ Isolated
▲ Small, Not Inventoried	□ Small & Large Rural
● Large, Not Inventoried	□ Urban

**Table 6. Characteristics of All New Hampshire WIC Vendors at Approximately, 6 Months Pre- and Post-Implementation\***

	6-Months prior to implementation	6-Months post-implementation	Net change	
	N (%)	N (%)		
<b>Total WIC Vendors</b>	219 (100.0)	202 (100)	-16	
<b>By Vendor Size**</b>				
1 register	60 (27.4)	47 (23.3)	-13	
2 registers	17 (7.8)	17 (8.4)	0	
3 registers	9 (4.1)	8 (4.0)	-1	
4 registers	7 (3.2)	7 (3.5)	0	
5+ registers	125 (57.1)	123 (60.9)	-2	
<b>By Geography</b>				
Urban	125 (57.1)	112 (55.5)	-13	
Rural	94 (42.9)	90 (44.6)	-4	
<b>By Vendor Size and Geography</b>				
1 register	Urban	45 (75.0)	34 (72.3)	-9
	Rural	15 (25.0)	13 (27.7)	-2
2 registers	Urban	5 (29.4)	5 (29.4)	0
	Rural	12 (70.6)	12 (70.6)	0
3 registers	Urban	3 (33.3)	2 (25.0)	-1
	Rural	6 (66.7)	6 (75.0)	0
4 registers	Urban	2 (28.6)	2 (28.6)	0
	Rural	5 (71.4)	5 (71.4)	0
5+ registers	Urban	69 (55.2)	69 (56.1)	0
	Rural	56 (44.8)	54 (43.9)	-2

\*New Hampshire had a moratorium on WIC vendor authorizations for the period October 2009 to February 2010.

\*\* Missing information on number of registers for one vendor.

**Table 7. Mean WIC Food Availability and Quality Index (WFAQI) Scores Among Small New Hampshire WIC Stores (N = 45)**

	N	Pre	Post	Difference (pre-post)	Intervention	
		Mean (SD)	Mean (SE)	t	P*	
New Hampshire	45	16.4 (8.9)	20.9 (6.3)	4.5 (0.7)	6.3	<.0001

\*Paired sample t-tests

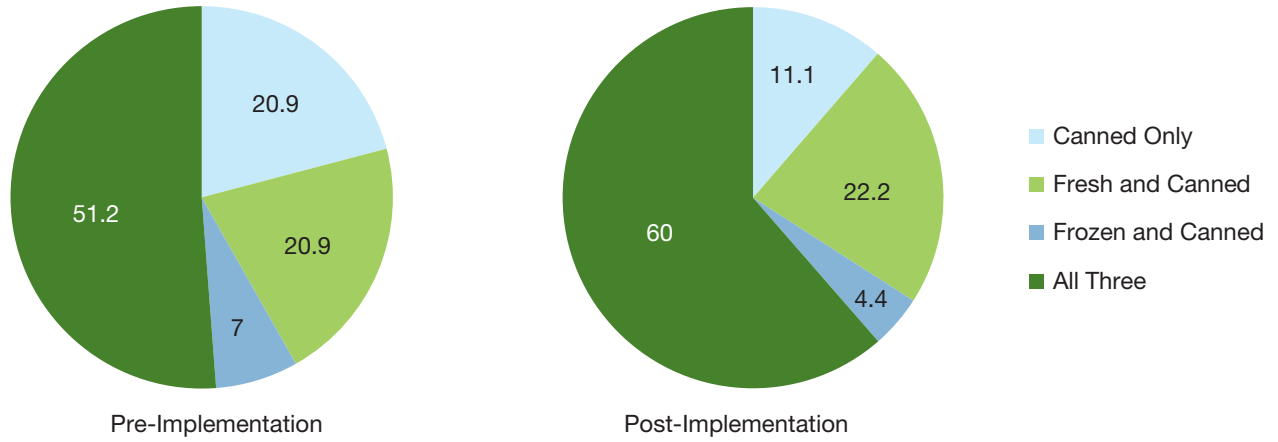
**Table 8. Percentage of Small New Hampshire WIC Stores with Inventoried Food Items Available, Pre- and Post-Implementation (n = 45)**

Food Item	Pre n (%)	Post n (%)	Δ Pre to post %	p-value
<b>Milk</b>				
Skim	35 (77.8)	36 (80.0)	2.2	ns
Low-fat	37 (82.2)	45 (100.0)	17.8	0.004
Reduced-fat	44 (97.8)	42 (93.3)	-4.4	ns
Soy	11 (24.4)	18 (40.0)	15.6	0.007
<b>Fruit</b>				
Fresh	31 (68.9)	37 (82.2)	13.3	0.032
75% or more acceptable	20 (44.4)	33 (73.3)	28.9	0.0001
Canned	43 (95.6)	44 (97.8)	2.2	ns
Frozen	25 (55.6)	30 (66.7)	11.1	ns
<b>Vegetables</b>				
Fresh	33 (73.3)	37 (82.2)	8.9	0.044
75% or more acceptable	25 (55.6)	34 (75.6)	20.0	0.0109
Frozen	36 (80.0)	38 (84.4)	4.4	ns
Canned	45 (100.0)	45 (100.0)	0.0	--
<b>Grains</b>				
Whole wheat bread, any size	33 (73.3)	44 (97.8)	24.4	0.002
Whole wheat bread, 16 oz.	8 (17.8)	35 (77.8)	60.0	<.0001
Whole wheat tortilla	3 (6.7)	20 (44.4)	37.8	<.0001
Corn tortillas	14 (31.1)	20 (44.4)	13.3	ns
Brown rice	18 (41.9)	42 (93.3)	51.2	<.0001
<b>Tofu</b>				
	6 (13.6)	11 (24.4)	9.1	ns

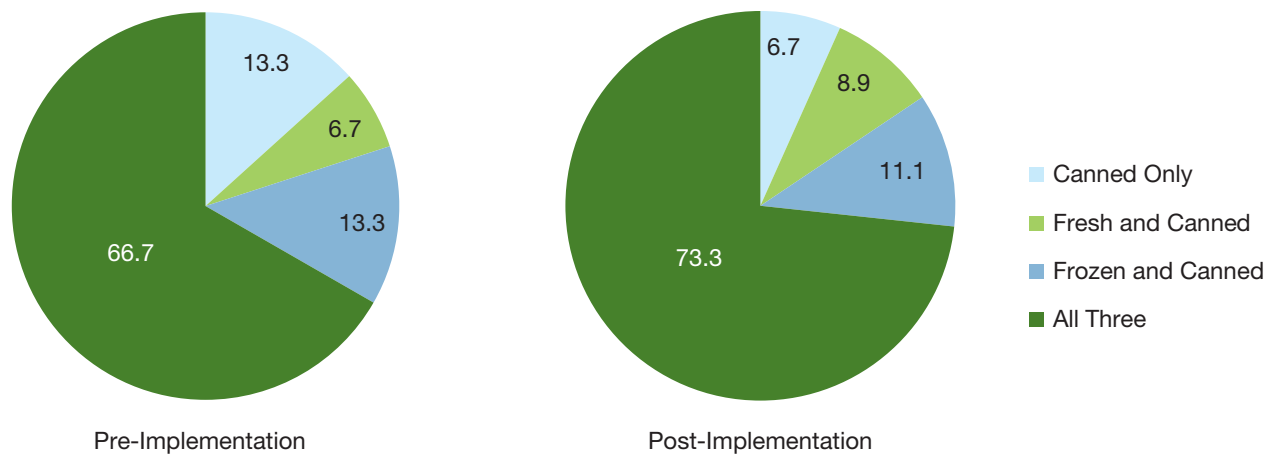
**Table 9. Percentage of Small New Hampshire WIC Stores with Milk Available, Pre- and Post-Implementation (N = 45)**

Milk Type	N	Pre	Post	Difference (pre-post)	Intervention	
		Mean (SD)	Mean (SE)	t	P*	
<b>Low-fat milk</b>						
Gallon	37	16.5 (17.1)	15.5 (18.1)	1.7 (2.1)	0.86	0.3958
Half gallon	36	20.4 (19.3)	14.4 (15.3)	-3.9 (2.5)	-1.6	0.1169
<b>High-fat milk</b>						
Gallon	45	24.4 (21.8)	27.4 (29.1)	3.0 (2.9)	1.0	0.3096
Half gallon	45	18.5 (19.3)	19.6 (18.3)	1.1 (2.8)	0.38	0.7052

**Figure 5. Types of Fruit Offered by Small New Hampshire WIC Stores, Pre- and Post-Implementation**

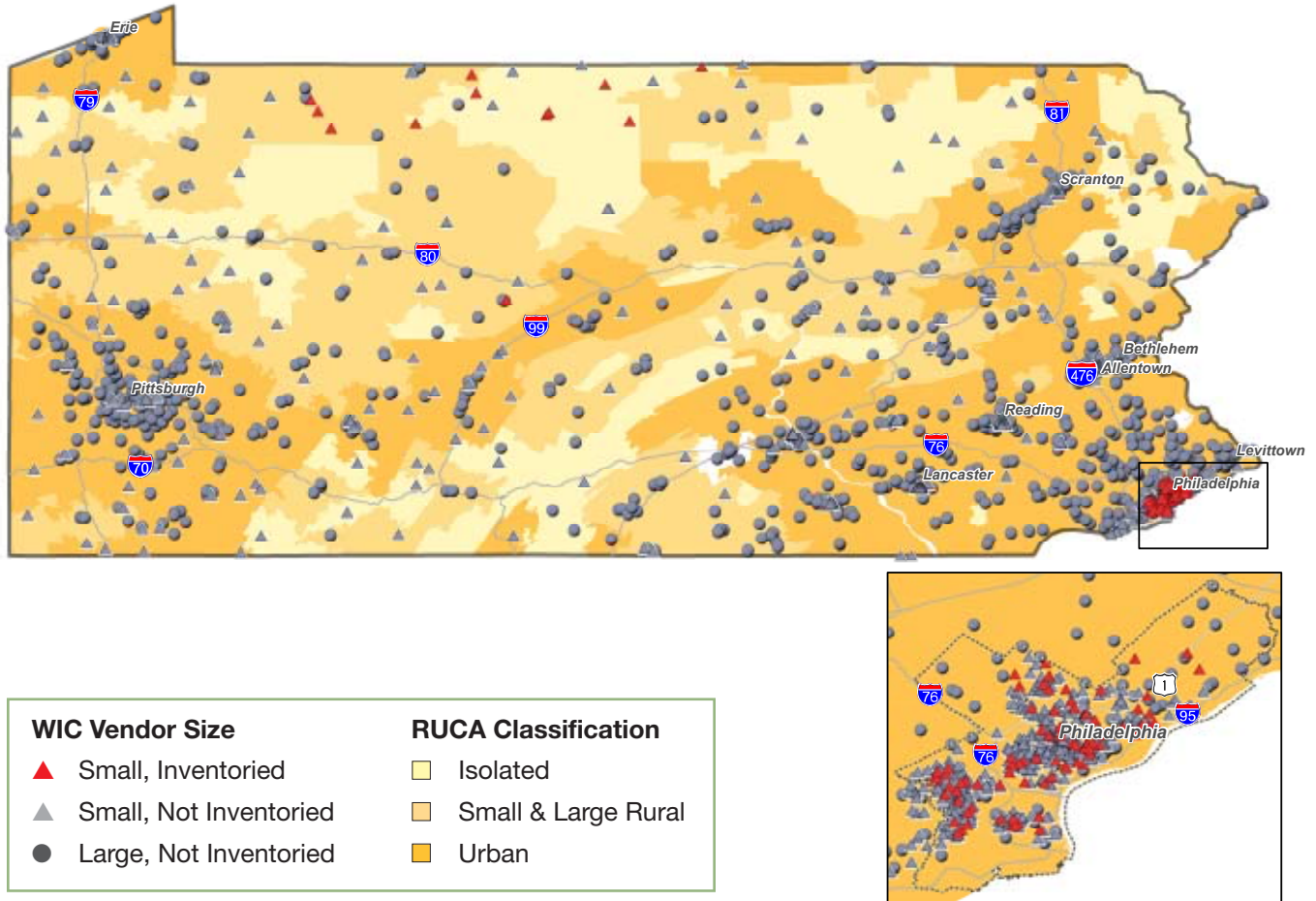


**Figure 6. Types of Vegetables Offered by Small New Hampshire WIC Stores, Pre- and Post-Implementation**



# Pennsylvania

**Figure 7. Map of Small and Large WIC Vendors Authorized in Pennsylvania**



**Table 10. Characteristics of All Pennsylvania WIC Vendors at Approximately 6 Months, Pre- and Post-Implementation**

	6-Months prior to implementation	6-Months post-implementation	Net change	
	N (%)	N (%)		
<b>Total WIC vendors</b>	1710 (100.0)	1765 (100.0)	+55	
<b>By vendor size**</b>				
1 register	546 (31.9)	582 (33.0)	+36	
2 registers	121 (7.1)	130 (7.4)	+9	
3 registers	57 (3.3)	59 (3.3)	+2	
4 registers	76 (4.4)	78 (4.4)	+2	
5+ registers	910 (53.2)	916 (51.9)	+6	
<b>By Geography</b>				
Urban	1411 (82.5)	1465 (83.0)	+54	
Rural	299 (17.5)	300 (17.0)	+1	
<b>By vendor size and geography</b>				
1 register	Urban	540 (98.9)	577 (99.1)	+37
	Rural	6 (1.1)	5 (0.9)	-1
2 registers	Urban	89 (73.6)	98 (75.4)	+9
	Rural	32 (26.5)	32 (24.6)	0
3 registers	Urban	34 (59.7)	35 (59.3)	+1
	Rural	23 (41.8)	24(40.7)	+1
4 registers	Urban	47 (61.8)	48 (61.5)	+1
	Rural	29 (38.2)	30 (38.5)	+1
5+ registers	Urban	701 (77.0)	707 (77.2)	+6
	Rural	209 (23.0)	209(22.8)	0

\*\* Missing information on number of registers for one vendor.

**Table 11. Mean WIC Food Availability and Quality Index (WFAQI) Scores Among Small Pennsylvania WIC Stores (N = 93)**

	N	Pre	Post	Difference (pre-post)	Intervention	
		Mean (SD)	Mean (SE)	t	P*	
Pennsylvania	93	13.5 (7.2)	14.8 (6.2)	1.3 (0.4)	3.3	0.001

\*Paired sample t-tests

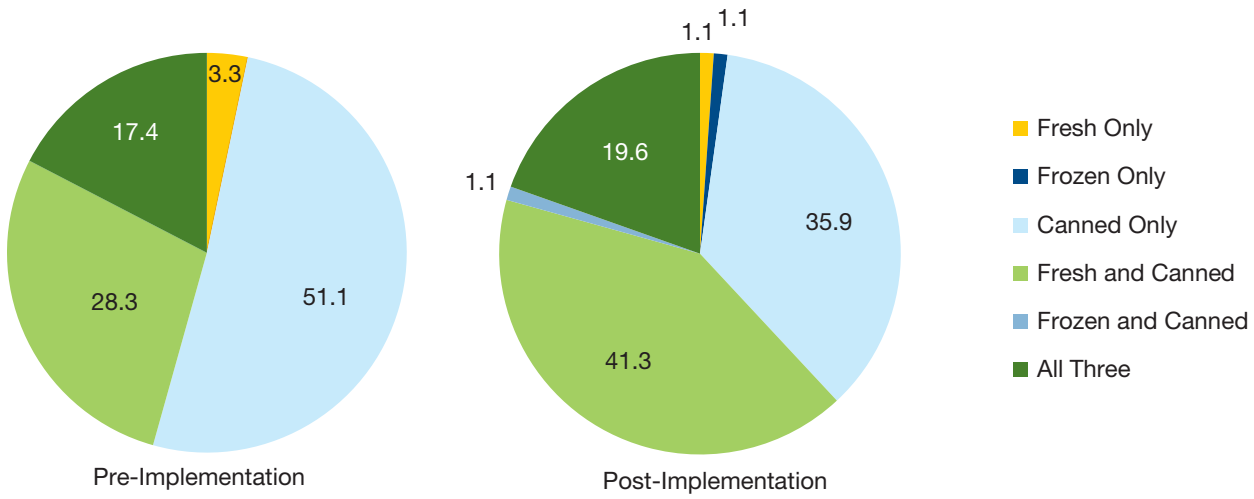
**Table 12. Percentage of Small Pennsylvania WIC Stores with Inventoried Food Items Available, Pre- and Post-Implementation (N = 93)**

Food Item	Pre	Post	Δ Pre to post %	p-value
	n (%)	n (%)		
<b>Milk</b>				
Skim	26 (28.0)	23 (24.7)	-3.2	ns
Low-fat	22 (23.7)	26 (28.0)	4.3	ns
Reduced-fat	88 (94.6)	86 (92.5)	-2.2	ns
Soy	18 (19.4)	29 (31.2)	11.8	0.004
<b>Fruit</b>				
Fresh	45 (48.4)	57 (61.3)	12.9	0.018
75% or more acceptable	39 (41.9)	46 (49.5)	7.6	ns
Canned	89 (95.7)	90 (96.8)	1.2	ns
Frozen	16 (17.2)	20 (21.5)	4.3	ns
<b>Vegetables</b>				
Fresh	77 (82.8)	80 (86.0)	3.2	ns
75% or more acceptable	66 (71.0)	58 (62.4)	-8.6	ns
Frozen	61 (65.6)	69 (74.2)	8.6	0.032
Canned	93 (100.0)	93 (100.0)	0.0	--
<b>Grains</b>				
Whole wheat bread, any size	65 (69.9)	78 (83.9)	14.0	0.012
Whole wheat bread, 16 oz.	6 (6.5)	37 (39.8)	33.3	<.0001
Whole wheat tortilla	6 (6.5)	14 (15.1)	8.6	0.004
Corn tortillas	17 (18.3)	28 (30.1)	11.8	0.004
Brown rice	57 (61.3)	72 (77.4)	16.1	0.002
<b>Tofu</b>	2 (2.2)	3 (3.2)	1.1	ns

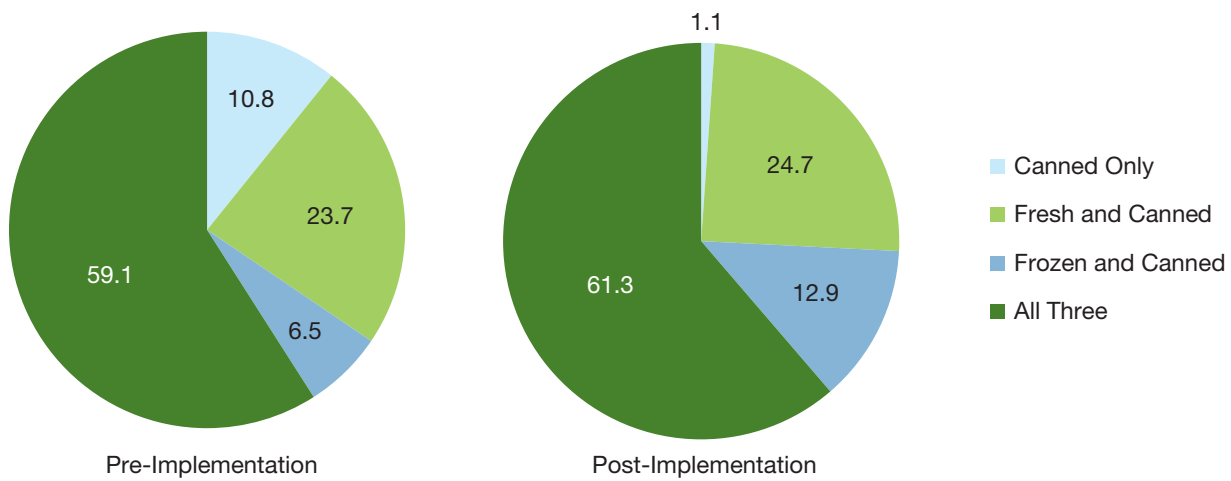
**Table 13. Percentage of Small Pennsylvania WIC Stores with Milk Available, Pre- and Post-Implementation (N = 93)**

Milk Type	N	Pre	Post	Difference (pre-post)	Intervention	
		Mean (SD)	Mean (SD)	Mean (SE)	t	P*
<b>Low-fat milk</b>						
Gallon	16	14.7 (13.1)	9.8 (13.5)	2.0 (2.5)	0.8	0.4380
Half gallon	25	12.5 (11.5)	13.0 (12.8)	1.7 (1.0)	1.6	0.1140
<b>High-fat milk</b>						
Gallon	93	17.8 (17.4)	18.9 (17.3)	1.1 (0.9)	1.2	0.2545
Half gallon	93	22.3 (14.5)	21.6 (15.9)	-0.6 (1.3)	-0.5	0.6358

**Figure 8. Types of Fruit Offered by Small Pennsylvania WIC Stores, Pre- and Post-Implementation**

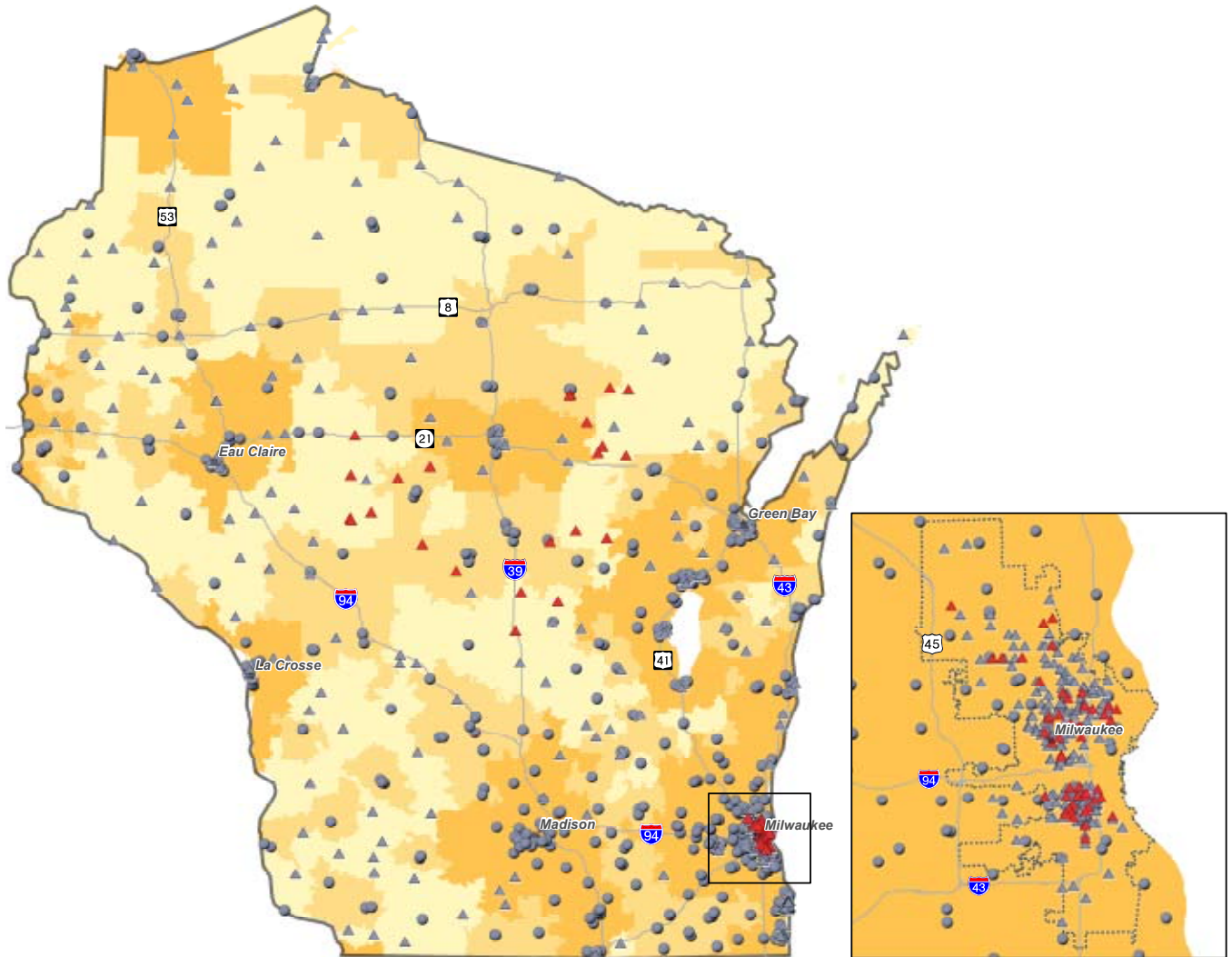


**Figure 9. Types of Vegetables Offered by Small Pennsylvania WIC Stores, Pre- and Post-Implementation**



# Wisconsin

Figure 10. Map of Small and Large WIC Vendors Authorized in Wisconsin



WIC Vendor Size	RUCA Classification
▲ Small, Inventoried	■ Isolated
▲ Small, Not Inventoried	■ Small & Large Rural
● Large, Not Inventoried	■ Urban

**Table 14. Characteristics of All Wisconsin WIC Vendors at Approximately 6 Months, Pre- and Post-Implementation**

	6-Months prior to implementation	6-Months post-implementation	Net change	
	N (%)	N (%)		
<b>Total WIC vendors</b>	941 (100.0)	939 (100.0)	-2	
<b>By vendor size</b>				
1 register	237 (25.2)	247 (26.3)	+10	
2 registers	126 (13.4)	125 (13.3)	-1	
3 registers	53 (5.6)	48 (5.1)	-5	
4 registers	65 (6.9)	64 (6.8)	-1	
5+ registers	460 (48.9)	455 (48.5)	-5	
<b>By geography</b>				
Urban	626 (66.5)	629 (67.0)	+3	
Rural	315 (33.5)	310 (33.0)	-5	
<b>By vendor size and geography</b>				
1 register	Urban	214 (90.3)	224 (90.7)	+10
	Rural	23 (9.7)	23 (9.3)	0
2 registers	Urban	86 (68.3)	86 (68.8)	0
	Rural	40 (31.8)	39 (31.2)	-1
3 registers	Urban	24 (45.3)	22 (45.8)	-2
	Rural	29 (54.7)	26 (54.2)	-3
4 registers	Urban	19 (29.2)	18 (28.1)	-1
	Rural	46 (70.1)	46 (71.9)	0
5+ registers	Urban	283 (61.5)	279 (61.3)	-4
	Rural	177 (38.5)	176 (38.7)	-1

**Table 15. Mean WIC Food Availability and Quality Index (WFAQI) Scores Among Small Wisconsin WIC Stores (N = 73)**

	N	Pre	Post	Difference (pre-post)	Intervention	
		Mean (SD)	Mean (SE)	t	P*	
Wisconsin	73	14.6 (8.5)	18.4 (6.6)	3.8 (0.5)	3.3	0.001

\*Paired sample t-tests

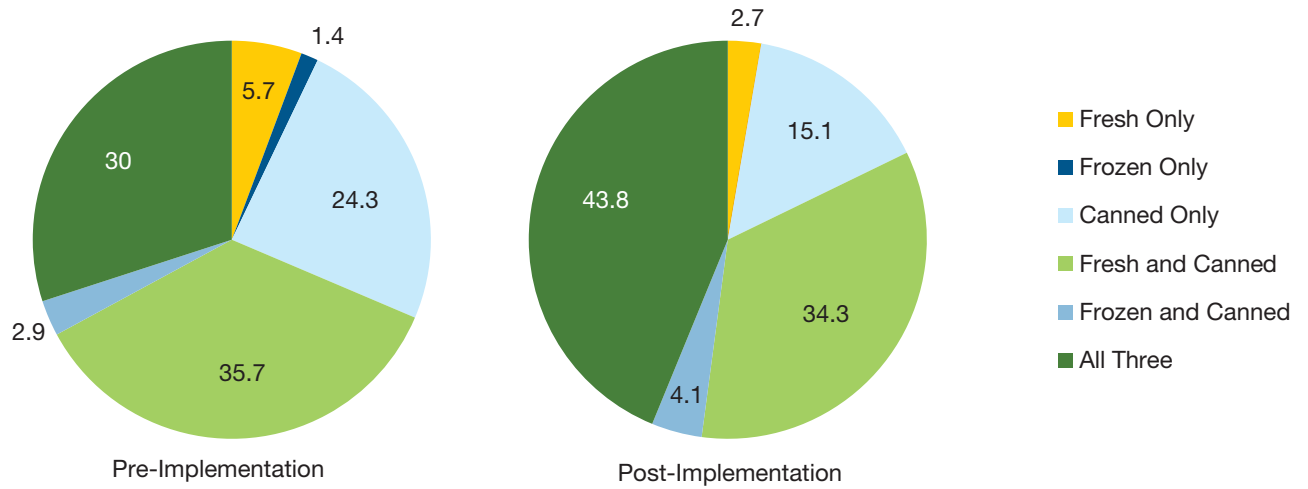
**Table 16. Percentage of Small Wisconsin WIC Stores with Inventoried Food Items Available, Pre- and Post-Implementation (N = 73)**

Food Item	Pre	Post	Δ pre to post %	p-value
	n (%)	n (%)		
<b>Milk</b>				
Skim	36 (49.3)	36 (49.3)	0.0	ns
Low-fat	38 (52.1)	61 (83.6)	31.5	<.0001
Reduced-fat	73 (100.0)	72 (98.6)	-1.4	ns
Soy	14 (19.2)	20 (27.4)	8.2	0.033
<b>Fruit</b>				
Fresh	50 (68.5)	59 (80.8)	12.3	0.028
75% or more acceptable	41 (56.2)	45 (61.6)	5.4	ns
Canned	65 (89.0)	71 (97.3)	8.2	0.013
Frozen	24 (32.9)	35 (48.0)	15.1	0.007
<b>Vegetables</b>				
Fresh	59 (81.9)	63 (86.3)	5.6	ns
75% or more acceptable	49 (67.1)	47 (64.4)	-2.7	ns
Frozen	55 (75.3)	61 (83.6)	8.2	ns
Canned	73 (100.0)	72 (98.6)	-1.4	ns
<b>Grains</b>				
Whole wheat bread, any size	25 (34.3)	61 (83.6)	49.3	<.0001
Whole wheat bread, 16 oz.	0 (0.0)	49 (67.1)	67.1	<.0001
Whole wheat tortilla	2 (2.7)	18 (24.7)	21.9	<.0001
Corn tortillas	36 (49.3)	39 (53.4)	4.1	ns
Brown rice	24 (33.8)	61 (83.6)	50.7	<.0001
<b>Tofu</b>	10 (13.7)	5 (6.9)	-6.9	0.024

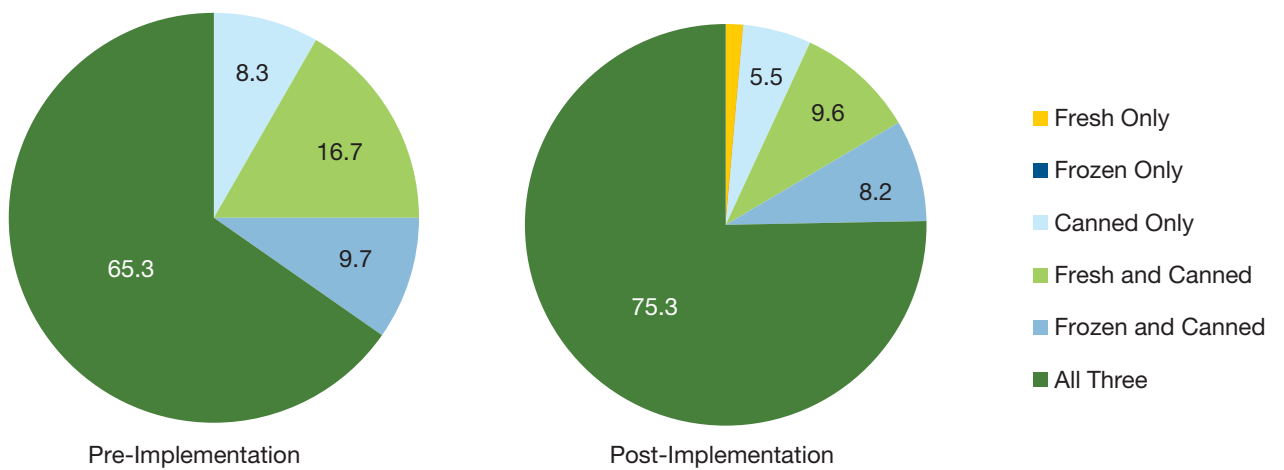
**Table 17. Percentage of Small Wisconsin WIC Stores with Milk Available, Pre- and Post-Implementation (N = 73)**

Milk Type	N	Pre	Post	Difference (pre-post)	Intervention	
		Mean (SD)	Mean (SE)	t	P*	
<b>Low-fat milk</b>						
Gallon	41	17.4 (17.7)	15.0 (17.9)	2.8 (1.4)	2.0	0.0522
Half gallon	39	12.9 (12.1)	7.5 (11.1)	-0.2 (0.8)	-0.3	0.7827
<b>High-fat milk</b>						
Gallon	73	28.5 (24.3)	27.5 (25.0)	-1.1 (2.1)	-0.5	0.6111
Half gallon	73	11.4 (11.9)	13.2 (12.8)	1.8 (0.9)	2.0	0.0483

**Figure 11. Types of Fruit Offered by Small Wisconsin WIC Stores, Pre- and Post-Implementation**



**Figure 12. Types of Vegetables Offered by Small Wisconsin WIC Stores, Pre- and Post-Implementation**



## Data By Number of Store Registers

**Table 18. Mean WIC Food Availability and Quality Index (FAQ) Scores and Mean Change Pre- to Post-Implementation, by Number of Registers (N = 211)**

	N	Pre	Post	Difference (pre-post)	Intervention	
		Mean (SD)	Mean (SD)	Mean (SE)	t	P*
<b>Overall</b>	211	14.5 (8.1)	17.4 (6.8)	2.9 (0.3)	9.2	<.0001
<b>By number of registers</b>						
1 register	141	10.6 (5.1)	14.1 (4.8)	3.5 (0.4)	8.7	<.0001
2 registers	40	19.1 (7.2)	21.7 (5.7)	2.6 (0.6)	4.8	<.0001
3 registers	19	26.1 (3.2)	26.3 (1.3)	0.2 (0.7)	0.3	0.753
4 registers	11	28.1 (4.0)	28.1 (1.9)	0.0 (1.1)	0.0	1.000

\*Paired sample t-tests

**Table 19. Percentage of Small WIC Stores with Each Milk Type, by Number of Registers\* (N = 211)**

Food Item	Pre	Post	Δ Pre to post %	p-value
	N (%)	N (%)		
<b>Skim</b>	97 (46.0)	95 (45.0)	-1.0	ns
1 register	40 (28.4)	37 (26.2)	-2.2	ns
2 registers	27 (67.5)	28 (70.0)	2.5	ns
3-4 registers	30 (100.0)	30 (100.0)	0.0	--
<b>Low-fat</b>	97 (46.0)	132 (62.6)	16.6	<.0001
1 register	41 (29.1)	73 (51.8)	22.7	<0.0001
2 registers	26 (65.0)	30 (75.0)	10.0	ns
3-4 registers	30 (100.0)	29 (96.7)	-3.3	ns
<b>Reduced-fat</b>	205 (97.2)	200 (94.8)	-2.4	ns
1 register	136 (96.5)	132 (93.6)	-2.9	ns
2 registers	39 (97.5)	38 (95.0)	-2.5	ns
3-4 registers	30 (100.0)	30 (100.0)	0.0	--
<b>Whole</b>	210 (99.5)	210 (99.5)	0.0	ns
1 register	141 (100.0)	140 (99.3)	-0.7	ns
2 registers	39 (97.5)	40 (100.0)	2.5	ns
3-4 registers	30 (100.0)	30 (100.0)	0.0	--
<b>Soy</b>	43 (20.4)	67 (31.8)	11.4	<.0001
1 register	8 (5.7)	19 (13.5)	7.8	0.004
2 registers	11 (27.5)	19 (47.5)	20.0	0.010
3-4 registers	24 (80.0)	29 (96.7)	16.7	0.023

**Table 20. Percentage of Small WIC Stores with Each Fruit Type, by Number of Registers\* (N = 211)**

Food Item	Pre	Post	$\Delta$ Pre to post %	p-value
	N (%)	N (%)		
<b>Fresh</b>	126 (59.7)	153 (72.5)	12.8	0.0001
1 register	63 (44.7)	85 (60.3)	15.6	0.001
2 registers	33 (82.5)	38 (95.0)	12.5	0.023
3-4 registers	30 (100.0)	30 (100.0)	0.0	--
<b>Canned</b>	197 (93.4)	205 (97.2)	3.8	0.011
1 register	127 (90.1)	135 (95.7)	5.5	0.011
2 registers	40 (100.0)	40 (100.0)	0.0	--
3-4 registers	30 (100.0)	30 (100.0)	0.0	--
<b>Frozen</b>	65 (30.8)	85 (40.3)	9.5	0.001
1 register	15 (10.6)	28 (19.9)	9.3	0.009
2 registers	23 (57.5)	27 (67.5)	10.0	ns
3-4 registers	27 (90.0)	30 (100.0)	10.0	ns

**Table 21. Percentage of Small WIC Stores with Each Vegetable Type, by Number of Registers\* (N = 211)**

Food Item	Pre	Post	$\Delta$ Pre to post %	p-value
	N (%)	N (%)		
<b>Fresh</b>	169 (80.5)	180 (85.3)	4.8	0.041
1 register	103 (73.6)	114 (80.9)	7.3	0.034
2 registers	36 (90.0)	36 (90.0)	0.0	ns
3-4 registers	30 (100.0)	30 (100.0)	0.0	--
<b>Canned</b>	152 (72.0)	168 (79.6)	7.6	0.009
1 register	141 (100.0)	141 (100.0)	0.0	--
2 registers	40 (100.0)	39 (97.5)	-2.5	ns
3-4 registers	30 (100.0)	30 (100.0)	0.0	--
<b>Frozen</b>	211 (100.0)	210 (99.5)	-0.5	ns
1 register	89 (63.1)	103 (73.1)	10.0	0.016
2 registers	34 (85.0)	36 (90.0)	5.0	ns
3-4 registers	29 (96.7)	29 (96.7)	0.0	ns

**Table 22. Percentage of Small WIC Stores with Each Grain Type, by Number of Registers\* (N = 211)**

Food Item	Pre	Post	$\Delta$ Pre to post %	p-value
	N (%)	N (%)		
<b>Whole wheat bread</b>	123 (58.3)	183 (86.7)	28.4	<.0001
1 register	69 (48.9)	116 (82.3)	33.4	<.0001
2 registers	28 (70.0)	37 (92.5)	22.5	0.002
3-4 registers	26 (86.7)	30 (100.0)	13.3	0.043
<b>Whole wheat tortilla</b>	11 (5.2)	52 (24.6)	19.4	<.0001
1 register	1 (0.7)	17 (12.1)	20.4	<.0001
2 registers	3 (7.5)	16 (40.0)	32.5	<.0001
3-4 registers	7 (23.3)	19 (63.3)	40.0	0.001
<b>Corn tortillas</b>	67 (31.8)	87 (41.2)	9.4	0.001
1 register	45 (31.9)	53 (37.6)	5.7	0.045
2 registers	7 (17.5)	16 (40.0)	22.5	0.018
3-4 registers	15 (50.0)	18 (60.0)	10.0	ns
<b>Brown rice</b>	99 (47.8)	175 (82.9)	35.1	<.0001
1 register	53 (38.1)	110 (78.0)	39.9	<.0001
2 registers	21 (53.9)	35 (87.5)	33.6	<.0001
3-4 registers	25 (86.2)	30 (100.0)	13.8	0.043



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