

Appendix C: Family-Level Redemptions of WIC Foods

Table 5: Overall WIC Family Benefit Redemptions (All Foods), by Family Characteristics

	Total		Kentucky		Michigan		Nevada		p-value
	N	%	N	%	N	%	N	%	
Overall (All Food Categories)									
All benefits redeemed	106,526	12.4	24,064	9.5	61,187	12.9	21,275	15.9	
Some benefits redeemed	707,085	82.3	212,569	84.4	392,437	82.9	102,079	76.2	<.0001
No benefits redeemed	45,586	5.3	15,353	6.1	19,562	4.1	10,671	8.0	
ALL EBT BENEFITS REDEEMED									
Family Race/Ethnicity*									
Non-Hispanic White	54,938	12.2	18,087	9.8	33,545	14.1	3,306	12.0	<.0001
Non-Hispanic Black	14,075	8.7	2,164	7.9	10,866	9.0	1,045	8.1	0.0154
Hispanic	27,964	16.1	2,333	9.6	10,057	15.2	15,574	18.7	<.0001
Non-Hispanic American Indian/Alaska Native	263	12.4	28	16.3	120	10.7	115	14.0	0.2030
Non-Hispanic Asian	3,089	25.3	263	13.3	2,295	32.3	531	17.0	0.2404
Non-Hispanic Native Hawaiian/Other Pacific Islander	165	11.0	18	6.2	24	13.9	123	11.8	0.1523
Non-Hispanic Multiple Races	5,699	9.9	1,171	8.4	3,947	10.2	581	11.0	0.0150
Geographic Location									
Urban	78,285	13.4	10,418	10.1	48,794	13.4	19,073	16.3	
Large rural	10,645	10.0	5,114	9.2	4,897	10.7	634	12.4	<.0001
Small rural	8,999	10.1	4,486	9.0	4,137	11.5	376	10.7	
Isolated	6,667	10.4	4,020	9.4	2,552	12.7	95	9.8	
Number of WIC Family Members									
1	76,376	15.5	18,930	12.5	42,849	16.0	14,597	19.8	
2	23,686	8.6	4,117	5.4	14,257	9.3	5,312	11.9	<.0001
3	5,599	7.3	878	4.5	3,519	7.9	1,202	9.2	
4 or more	865	6.2	139	3.6	562	7.2	164	7.0	
Number of Persons in Household									
1-2	16,068	10.9	4,082	10.8	9,712	10.5	2,274	13.2	
3-4	53,042	11.5	13,252	9.3	29,619	11.8	10,171	14.9	0.2318
5-6	29,635	14.5	5,496	9.2	16,903	15.9	7,236	18.6	
7 or more	7,671	17.1	1,212	10.1	4,953	20.7	1,506	16.6	

Table 1. Family-Level Redemptions of Foods Issued to Women and Children, by Food Category Type

Foods Prescribed to Women and Children	Total		Kentucky		Michigan		Nevada		p-value
	N	%	N	%	N	%	N	%	
Fruit and Vegetable Cash Value Benefit									
All benefits redeemed	281,680	36.7	71,912	32.4	154,165	36.4	55,603	45.8	
Some benefits redeemed	373,478	48.7	110,367	49.8	213,801	50.4	49,310	40.7	<.0001
No benefits redeemed	111,889	14.6	39,473	17.8	56,020	13.2	16,396	13.5	
Cereal									
All benefits redeemed	407,184	53.1	104,350	47.1	227,456	53.7	75,378	62.2	
Some benefits redeemed	150,585	19.6	48,569	21.9	84,142	19.9	17,874	14.7	<.0001
No benefits redeemed	208,895	27.3	68,717	31.0	112,202	26.5	27,976	23.1	
Cheese									
All benefits redeemed	489,637	68.5	112,603	60.7	287,584	69.6	89,450	77.2	
Some benefits redeemed	65,825	9.2	22,635	12.2	40,083	9.7	3,107	2.7	<.0001
No benefits redeemed	159,566	22.3	50,410	27.2	85,773	20.7	23,383	20.2	
Eggs									
All benefits redeemed	578,621	75.6	161,130	72.7	320,798	75.7	96,693	80.0	
Some benefits redeemed	37,685	4.9	10,711	4.8	23,639	5.6	3,335	2.8	<.0001
No benefits redeemed	149,611	19.5	49,700	22.4	79,079	18.7	20,832	17.2	
100% Fruit Juice									
All benefits redeemed	504,492	65.8	136,890	61.8	291,838	68.9	75,764	62.6	
Some benefits redeemed	101,304	13.2	33,219	15.0	53,380	12.6	14,705	12.2	<.0001
No benefits redeemed	160,602	21.0	51,525	23.2	78,577	18.5	30,500	25.2	
Beans and Peanut Butter									
All benefits redeemed	392,721	51.3	90,552	40.9	237,089	56.0	65,080	54.0	
Some benefits redeemed	76,384	10.0	34,374	15.5	32,250	7.6	9,760	8.1	<.0001
No benefits redeemed	296,593	38.7	96,415	43.6	154,403	36.4	45,775	38.0	
Canned Fish									
All benefits redeemed	18,334	60.9	3,175	54.7	12,311	63.8	2,848	56.8	
Some benefits redeemed	2,124	7.1	564	9.7	1,064	5.5	496	9.9	0.0015
No benefits redeemed	9,667	32.1	2,069	35.6	5,931	30.7	1,667	33.3	
Whole Grains									
All benefits redeemed	358,717	51.3	78,148	39.3	213,133	55.5	67,436	58.0	
Some benefits redeemed	102,395	14.7	33,103	16.6	53,011	13.8	16,281	14.0	<.0001
No benefits redeemed	237,994	34.0	87,807	44.1	117,725	30.7	32,462	27.9	
Nutritional Supplement									
All benefits redeemed	6,802	54.0	1,607	48.9	2,914	47.8	2,281	71.1	
Some benefits redeemed	3,992	31.7	1,135	34.5	2,318	38.0	539	16.8	<.0001
No benefits redeemed	1,803	14.3	544	16.6	870	14.3	389	12.1	

Dairy Milk	Total		Kentucky		Michigan		Nevada		p-value
	N	%	N	%	N	%	N	%	
Milk, Fluid									
All benefits redeemed	283,381	37.8	78,169	35.7	147,537	35.7	57,675	48.7	<.0001
Some benefits redeemed	403,656	53.8	120,909	55.2	234,427	56.7	48,320	40.8	
No benefits redeemed	63,387	8.4	19,777	9.0	31,171	7.5	12,439	10.5	
By Type									
Whole milk									
All benefits redeemed	93,840	44.7	25,365	41.8	49,918	43.4	18,557	54.1	<.0001
Some benefits redeemed	96,356	45.9	29,102	48.0	55,424	48.2	11,830	34.5	
No benefits redeemed	19,792	9.4	6,154	10.2	9,732	8.5	3,906	11.4	
Lowfat milk									
All benefits redeemed	236,522	37.6	65,416	35.9	122,503	35.3	48,603	48.8	<.0001
Some benefits redeemed	337,006	53.6	99,979	54.8	196,869	56.7	40,158	40.3	
No benefits redeemed	55,737	8.9	17,053	9.3	27,820	8.0	10,864	10.9	
Cow's Milk by Container Size									
Gallon									
All benefits redeemed	455,127	60.7	122,355	55.9	255,284	61.8	77,488	65.5	<.0001
Some benefits redeemed	229,847	30.6	76,016	34.7	125,589	30.4	28,242	23.9	
No benefits redeemed	65,105	8.7	20,451	9.3	32,060	7.8	12,594	10.6	
Half gallon									
All benefits redeemed	80,996	47.6	23153	40.5	53,774	51.4	4,069	49.4	<.0001
Some benefits redeemed	134	0.1	36	0.1	51	0.0	47	0.6	
No benefits redeemed	89,003	52.3	33986	59.4	50,890	48.6	4,127	50.1	
Quart									
All benefits redeemed	271,707	40.3	57121	35.3	156,199	38.9	58,387	52.8	<.0001
Some benefits redeemed	14,742	2.2	1,774	1.1	10,913	2.7	2,055	1.9	
No benefits redeemed	387,509	57.5	102,752	63.6	234,536	58.4	50,221	45.4	

Dairy Milk Substitutions	Total		Kentucky		Michigan		Nevada		p-value
	N	%	N	%	N	%	N	%	
Lactose free milk									
All benefits redeemed	3,427	20.0	1,147	37.9	1,423	12.5	857	32.2	<.0001
Some benefits redeemed	11,087	64.8	1,398	46.2	8,271	72.4	1,418	53.3	
No benefits redeemed	2,593	15.2	482	15.9	1,727	15.1	384	14.4	
Soy milk									
All benefits redeemed	1,802	34.3	421	37.5	1,138	37.6	243	22.1	<.0001
Some benefits redeemed	2,082	39.6	473	42.1	1,038	34.3	571	51.8	
No benefits redeemed	1,370	26.0	229	20.4	853	28.2	288	26.1	
Goat milk									
All benefits redeemed	120	30.3	--	--	95	29.0	25	36.8	0.0575
Some benefits redeemed	162	40.9	--	--	132	40.2	30	44.1	
No benefits redeemed	114	28.8	--	--	101	30.8	13	19.1	
Evaporated milk									
All benefits redeemed	130	59.9	0	0.0	101	60.1	29	70.7	0.0065
Some benefits redeemed	20	9.2	0	0.0	19	11.3	1	2.4	
No benefits redeemed	67	30.9	8	100	48	28.6	11	26.8	
Tofu									
All benefits redeemed	76	48.7	58	48.3	--	--	18	50.0	0.396
Some benefits redeemed	16	10.3	9	7.5	--	--	7	19.4	
No benefits redeemed	64	41.0	53	44.2	--	--	11	30.6	

Table 2. Family-Level Redemptions of Foods Issued to Infants, by Food Category Type

Infant Foods	Total		Kentucky		Michigan		Nevada		p-value
	N	%	N	%	N	%	N	%	
Infant Formula									
All benefits redeemed	257,164	87.6	73,279	83.8	144,999	90.1	38,886	86.2	<.0001
Some benefits redeemed	22,080	7.5	9,158	10.5	10,308	6.4	2,614	5.8	
No benefits redeemed	14,253	4.9	4,965	5.7	5,659	3.5	3,629	8.0	
Infant Cereal									
All benefits redeemed	76,218	49.5	19,442	44.3	45,424	52.7	11,352	47.3	<.0001
Some benefits redeemed	21,958	14.2	6,959	15.8	12,053	14.0	2,946	12.3	
No benefits redeemed	55,969	36.3	17,527	39.9	28,761	33.4	9,681	40.4	

Infant Foods	Total		Kentucky		Michigan		Nevada		p-value
	N	%	N	%	N	%	N	%	
Infant Fruits and Vegetables									
All benefits redeemed	76,218	49.5	19,442	44.3	45,424	52.7	11,352	47.3	<.0001
Some benefits redeemed	21,958	14.2	6,959	15.8	12,053	14.0	2,946	12.3	
No benefits redeemed	55,969	36.3	17,527	39.9	28,761	33.4	9,681	40.4	
Infant Jarred Meats									
All benefits redeemed	3,357	30.9	570	26.5	2,384	34.7	403	21.9	0.0719
Some benefits redeemed	2,511	23.1	529	24.6	1,483	21.6	499	27.2	
No benefits redeemed	4,989	46.0	1,051	48.9	3,003	43.7	935	50.9	